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CALENDAR

OF

Queen's College and University

KINGSTON, CANADA.

FOR THE YEAR 1909-1910.

PART 1.



INCORPORATED BY ROYAL CHARTER A.D. 1841.

KINGSTON :
PRINTED FOR THE UNIVERSITY BY THE BRITISH WHIG,
1909.

This Calendar is for the use of persons intending to take a University course in *Arts* or *Theology*.

For *Medical* Calendar write Dr. A. R. B. Williamson, Kingston, Ontario.

For *Science* Calendar (School of Mining), including all courses in Engineering, write George Y. Chown, B.A., Kingston, Ontario.

The *Educational Courses*, under agreement with the Ontario Education Department, are accepted as the professional courses for (a) First Class Public School Certificate; (b) High School Assistant's Interim Certificate, and (c) Specialist's Interim Certificate. For Calendar write George Y. Chown, B.A., Kingston, Ontario.

For lists of graduates, students, Scholarships and Prizes and pass lists, all Faculties, see complete Arts Calendar.

The complete Arts Calendar and the Examination Papers, all Faculties, will be issued early in June. Thereafter copies (twenty-five cents for Calendar and fifty cents for Examination Papers) may be had on application to the Registrar, George Y. Chown, B.A., Kingston, Ontario., to whom all enquiries for information and letters regarding Arts, Science, Education and Theology courses should be addressed.

**Queen's University
Library**

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1909/10

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ACADEMIC YEAR.

1909.

- May 22.—Notice of intention to compete for Matriculation Scholarships to be given in writing to the Registrar.
- June 28.—Matriculation examinations begin at the University and every Collegiate Institute and High School in Ontario.
- Sept. 1—Applications accompanied by fee for Supplemental Pass or Matriculation examinations to be made to the Registrar.
- “ 14—Arts and Science Supplemental Pass examinations begin.
- “ 16—Supplemental Matriculation examinations begin.
- “ 16—Medical Supplemental examinations begin.
- “ 29—Classes in Medicine open.
- “ 29—Classes in Arts, Applied Science and Mining open.
- Oct. 5—Candidates for B.D., Supplemental and Matriculation examinations in Theology must give notice of their intention to appear.
- “ 16—University Day.
- “ 25—B.D. Supplemental and Matriculation examinations in Theology begin.
- Nov. 1—Classes in Theology open.
- Dec. 20—Christmas Holidays begin.

1910.

- Jan. 4—Classes re-open.
- Feb. 9—Holiday.
- March 1—Time expires for receiving Theses for Ph.D., D.Sc. and Essays for University Prizes.
- “ 30—Class work in Arts and Mining closes.
- April 1—Class work in Medicine closes.
- April 4—Examinations in Arts, Medicine and Mining begin.
- “ 8—Class work in Theology closes.
- “ 12—Examinations in Theology begin.
- “ 25—Statutory Meeting of Senate for conferring Degrees, &c.
- “ 27—Convocation for distributing Prizes, announcing Honours and laureating graduates in Arts, Medicine, Science and Theology.

UNIVERSITY OFFICERS.

BOARD OF TRUSTEES.

Retire April, 1913.

*DONALD M. McINTYRE, B.A., K.C.....	Kingston.
**Rev. EBER CRUMMY, B.Sc., D.D.	Toronto.

Retire April, 1912.

**Hon. WM. HARTY.....	Kingston.
*P. C. MCGREGOR, B.A., LL.D.....	Almonte.
Rev. M. MACGILLIVRAY, M.A., D.D.....	Kingston.
Rev. JOHN MACKIE, M.A., D.D.....	Kingston.
G. M. MACDONNELL, B.A., K.C.....	Kingston.
HUGH WADDELL.....	Peterborough.
JOHN McINTYRE, M.A. K.C.....	Kingston.

Retire April, 1911.

*JAMES DOUGLAS, B.A., LL.D.....	New York.
**Rev. A. GANDIER, M.A., D.D.	Toronto.
Rev. W. T. HERRIDGE, D.D.....	Ottawa.
Rev. D. R. DRUMMOND, M.A.....	Hamilton.
Rev. W. J. CLARK.....	Westmount.
SHERIFF MACLENNAN, B.A.....	Lindsay.
Sir SANDFORD FLEMING, K.C.M.G., LL.D.....	Ottawa.
D. B. MACLENNAN, M.A., K.C.....	Cornwall.

Retire April, 1910.

Rev. THOMAS WARDROBE, D.D.....	58 Redpath St., Montreal.
Rev. ROBERT CAMPBELL, M.A., D.D.....	Montreal.
Rev. E. D. McLAREN, M.A., D.D.....	Toronto.
ANDREW T. DRUMMOND, B.A., LL.D.....	Toronto.
J. K. MACDONALD.....	Toronto.
A. E. MALLOCH, M.D.....	Hamilton.
GEORGE GILLIES, B.A.....	Toronto.
*H. A. CALVIN.....	Kingston.
**J. S. WILLISON, LL.D.....	Toronto.

Those marked * are elected by University Council.

Those marked ** are elected by graduates.

Retire April, 1909.

Rev. G. M. MILLIGAN, B.A., D.D., LL.D.....	Toronto.
Hon. Mr. JUSTICE MACLENNAN, LL.D.....	Ottawa.
FRANCIS H. CHRYSLER, B.A., K.C.....	Ottawa.
J. ROBERTS ALLAN.....	Ottawa.
JOHN CHARLTON.....	Lynedoch.
Rev. JOHN HAY, B.A., B.D.....	Renfrew.
*R. VASHON ROGERS, B.A., LL.D., K.C.....	Kingston.
**J. McD. MOWAT, M.A.....	Kingston.
HON. MR. JUSTICE MACLENNAN, LL.D.....	Chairman.
GEO. Y. CHOWN, B.A.....	Secretary-Treasurer.

The Annual Meeting of the Board will be held in the Senate Chamber on the evening of Wednesday, April 27th.

Those marked * are elected by University Council.
Those marked ** are elected by graduates.

UNIVERSITY COUNCIL.

The Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of elective members.

The Chancellor is elected by the Council, except when two or more candidates are nominated, in which case the election is by registered graduates and alumni. He holds office for three years, and, as highest officer of the University, presides at meetings of the Council and Convocation, and at statutory meetings of Senate. In his absence he is represented by the Vice-Chancellor.

Of the elective members eight retire annually, except in every sixth year when ten retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to elect five trustees (one trustee retiring annually); to discuss all questions relating to the College and its welfare; to make representations of its views to the Senate or Board of Trustees; to decide on proposals for affiliation and to arrange all matters pertaining to the installation of the Chancellor, to its own meetings and business, the meetings and proceedings of Convocation, and the fees for membership, registration and voting.

Convocation for the conferring of degrees, etc., will be held upon Wednesday, April 27th, 1910.

ELECTIVE MEMBERS IN THE ORDER OF THEIR RETIRING.

Retire 1914	J. M. FARRELL, B.A.....	Kingston
	*H. A. CALVIN	Kingston
	*R. V. ROGERS, K.C., B.A., LL.D.....	Kingston
	E. R. PEACOCK, M.A.	Toronto
	*JAS. DOUGLAS, B.A., LL.D.....	New York
	REV. J. K. MACMORINE, M.A., D.D.	Kingston
	REV. S. HARPER GRAY, B.A.....	Dundas
	A. G. FARRELL, B.A.	Moose Jaw, Sask.
Retire 1913	H. M. MOWAT, B.A., LL.D., K.C.....	Toronto
	W. L. GRANT, M.A.	Oxford, Eng.
	REV. JAS. WALLACE, M.A.	Lindsay
	H. R. DUFF, M.D.	Kingston
	C. F. HAMILTON, M.A.	Ottawa
	G. F. MACDONNELL, M.A.	Toronto
	F. J. POPE, M.A., Ph.D	New York
	E. C. WATSON, M.A., M.D.	Detroit

Retire 1912	{	*P. C. MCGREGOR, B.A., LL.D	Almonte
		REV. EBER CRUMMY, D.D.....	Toronto
		R. S. MINNES, M.A., M.D.....	Ottawa
		J. MCD. MOWAT, B.A.....	Kingston
		REV. J. HAY, M.A., B.D.....	Renfrew
		JAMES A. MINNES, B.A.....	Kingston
		REV. T. C. BROWN, M.A.....	Toronto
		MISS A. E. MARTY, M.A.....	Ottawa
Retire 1911	{	*D. M. MCINTYRE, B.A., K.C.	Kingston
		REV. J. D. BOYD, B.A.....	Kingston
		REV. JAMES H. TURNBULL, M.A.....	Ottawa
		G. F. HENDERSON, B.A., K.C.	Ottawa
		REV. J. CUMBERLAND, M.A.....	Stella
		A. H. BEATON, B.A.....	Toronto
		REV. JAMES ANTHONY, M.A.....	Waterdown
		MISS E. FITZGERALD, M.A.....	Niagara Falls, Ont.
Retire 1910	{	JOHN MARSHALL, M.A.....	Kingston
		J. R. LAVELL, B.A.....	Strathcona, Alta.
		REV. JAMES CARMICHAEL, D.D.....	King
		W. A. LOGIE, M.A., LL.B.....	Hamilton
		JUDGE FRALECK, B.A.....	Belleville
		R. H. COWLEY, M.A.....	Ottawa
		R. S. O'LOUGHLIN, M.A.....	New York
		REV. W. W. PECK, M.A., LL.B.....	Arnprior
Retire 1909	{	FRANCIS KING, M.A.....	Kingston
		W. F. NICKLE, B.A.....	Kingston
		REV. R. LAIRD, M.A.....	Kingston
		J. B. TURNER, M.A.	Hamilton
		REV. D. STRACHAN, B.A.....	Brockville
		ANDREW HAYDON, M.A.....	Ottawa
		REV. JAMES BINNIE, M.A., B.D.....	Tweed
		D. D. CALVIN, B.A.....	Kingston
		J. H. MILLS, M.A.....	Waterford
		T. H. FARRELL, M.D.....	Utica, N.Y.

* The five names thus marked are the Council's elected representatives on the Board of Trustees.

CHANCELLOR:

SIR SANDFORD FLEMING, C.E., K.C.M.G., LL.D.

PRINCIPAL AND VICE-CHANCELLOR:

VERY REV. DANIEL MINER GORDON, M.A., D.D.

VICE-PRINCIPAL:

JOHN WATSON, M.A., LL.D.

REGISTRAR:

GEORGE Y. CHOWN, B.A.

OFFICERS OF INSTRUCTION.

I.—In Theology.

- Very Rev. D. M. Gordon, M.A., D.D.....Primarius Professor of Divinity.
Rev. D. Ross, D.D.....Professor of Apologetics and New
Testament Criticism and Dean of
Theological Faculty.
Rev. W. G. Jordan, B.A., D.D.....Professor of Hebrew and Old Testa-
ment Criticism.
Rev. E. F. Scott, M.A., D.D.....Professor of Church History and
History of Dogma.
Rev. G. M. Milligan, D.D., LL.D.....Lecturer on Pastoral Theology.
.....“Watkins” Lecturer on Elocution.

II.—In Arts.

- Nathan F. Dupuis, M.A., F.B.S., Edin...Professor of Mathematics.
Rev. George D. Ferguson, B.A.....Emeritus Professor of History.
John Watson, M.A., LL.D.....Professor of Moral Philosophy.
D. H. Marshall, M.A., F.R.S.E.....Emeritus Professor of Physics.
James Cappon, M.A.....Professor of English Language and
Literature, and Dean of Arts Fac-
ulty.
J. Macgillivray, Ph.D. (Leipsic).....Professor of German.
S. W. Dyde, M.A., D.Sc., LL.D.....Professor of Mental Philosophy.
Rev. Jas. Fowler, M.A., F.R.S.C.....Emeritus Professor of Botany.
A. P. Knight, M.A., M.D.....“The John Roberts” Professor of
Animal Biology and Physiology.

W. G. Jordan, B.A., D.D.....	Professor of Hebrew.
P. G. C. Campbell, M.A. (Oxon).....	Professor of Romance Languages.
T. Callander M.A. (Abdn.) M.A. (Oxon.)	Professor of Greek.
W. B. Anderson, M.A. (Abdn. & Cantab.)	Professor of Latin.
J. L. Morison, M.A.....	Professor of History.
W. T. McClement, M.A.....	"The John Roberts Allan" Professor of Botany.
Oscar Skelton, M.A., Ph.D.....	"The Sir John A. MacDonald" Professor of Political and Economic Science.
John Marshall, M.A.....	Assistant Professor of English Language and Literature.
John Matheson, M.A.....	"The William Nickle" Assistant Professor of Mathematics.
E. W. Patchett, B.A. (Cantab.).....	"The Wm. McKenzie" Associate Professor of Modern Languages.
G. W. Mitchell, M.A.....	Associate Professor of Classics.
W. W. Swanson, M.A., Ph.D.....	Assistant Professor in Political Science.
H. T. Wallace, B.A., B.D.....	"The Robert Waddell" Lecturer in Hebrew.
J. F. Macdonald, M.A.....	Lecturer in English.
J. L. Nicol, M.A.....	Fellow in Mental Philosophy.
D. C. Ramsay, M.A.....	Fellow in Moral Philosophy.
R. J. MacDonald, M.A.....	'01 Fellow in English.

III.—In Practical Science.

Nathan F. Dupuis, M.A., F.B.S., F.R.S.C.	Professor of Mathematics and Mechanism and Dean of Faculty.
Wm. L. Goodwin, B.Sc. (Lond.) D.Sc. (Edin.), F.R.S.C.....	Professor of Chemistry, Director of School of Mining.
D. H. Marshall, M.A., F.R.S.E.....	Emeritus Professor of Physics.
William Nicol, M.A.....	Professor of Mineralogy.
Rev. Jas. Fowler, M.A., F.R.S.C.....	Emeritus Professor of Botany.
A. P. Knight, M.A., M.D.....	Professor of Animal Biology and Physiology.
L. W. Gill, B.Sc.....	Professor of Electrical Engineering.
F. Stafford Kirkpatrick, M.Sc.....	Professor of Metallurgy.
.....	Professor of Geology and Petrography
J. C. Gwillim, B.Sc.....	Professor of Mining Engineering.

A. K. Kirkpatrick.....	Professor of Civil Engineering.
A. Macphail, B.Sc.....	Professor of General Engineering.
A. L. Clark, M.A., Ph.D.....	Professor of Physics.
F. O. Willhofft, M.A.....	Professor in Mechanical Engineering.
John Waddell, B.A., D.Sc., Ph.D.....	Assistant Professor in Chemistry.
W. C. Baker, M.A.....	Assistant Professor in Experimental Physics on "The Robert Waddell" Foundation.
M. B. Baker, B.Sc.....	Lecturer on Mineralogy and Geology.
L. A. H. Warren, M.A.....	Lecturer on Applied Mathematics.
C. W. Dickson, M.A., Ph.D.....	Lecturer in Chemistry.
W. O. Walker, M.A.....	Lecturer in Organic Chemistry.
E. W. Henderson, B.Sc.....	Lecturer in Electrical Engineering.
Lindsay Malcolm, M.A., B.Sc.....	Lecturer in Civil Engineering.
G. J. McKay, B.Sc.....	Lecturer in Mining and Metallurgy.
W. P. Firth, M.A., D.Sc.....	Lecturer in Chemistry.
C. F. Lorenz, M.A.....	Lecturer in Physics.
W. C. Way, M.Sc.....	Lecturer in Drawing and Designing.

IV.—In Medicine.

D. M. Gordon, M.A., D.D.....	Principal.
J. C. Connell, M.A., M.D.....	Dean.
A. R. B. Williamson, M.A., M.D., M.R.C.S. (Eng.), L.R.C.P. (Lon.).....	Secretary.

Surgery.

Hon. Michael Sullivan, M.D.....	Emeritus Professor.
D. E. Mundell, B.A., M.D.....	Professor of the Principles and Prac- tice of Surgery.
W. G. Anglin, M.D., M.R.C.S. (Eng.)...	Professor of Clinical Surgery.
Edward Ryan, B.A., M.D.....	Associate Professor of Clinical Sur- gery.
G. W. Mylks, M.D.....	Assistant Professor of Surgery.
C. A. Morrison, M.D.....	Clinical Lecturer.

Medicine.

James Third, M.D. (Toronto), M.D., C.M. (Trinity).....	Professor of Medicine and Clinical Medicine.
J. W. Campbell, B.A., M.D., C.M.....	Associate Professor of Medicine and Professor of Therapeutics.

Edward Ryan, B.A., M.D.....Associate Professor of Clinical Medicine.

A. E. Ross, B.A., M.D.....Professor of Materia Medica, Pharmacology and Pharmacy.

W. C. Barber, M.D. (Tor.), M.D., C.M.,
(Vic.).....Clinical Assistant.

Obstetrics and Gynaecology.

R. W. Garrett, M.A., M.D.....Professor.

Isaac Wood, M.A., M.D., M.R.C.S.
(Eng.), F.O.S. (Edin.).....Associate Professor.

Pediatrics.

Isaac Wood, M.A., M.D., M.R.C.S.
(Eng.), F.O.S. (Edin.).....Professor.

Ophthalmology, Otology, Laryngology, Rhinology.

J. C. Connell, M.A., M.D.....Professor.

Medical Jurisprudence and Toxicology.

A. R. B. Williamson, M.A., M.D., M.R.C.S.
(Eng.), L.R.C.P. (Lond.).....Professor.

John McIntyre, M.A., K.C.....Lecturer.

Sanitary Science.

W. T. Connell, M.D., M.R.C.S. (Eng.),
L.R.C.P. (Lond.).....Professor.

Pathology and Bacteriology.

W. T. Connell, M.D., M.R.C.S. (Eng.),
L.R.C.P. (Lond.).....Professor.

A. R. B. Williamson, M.A., M.D., M.R.C.S.
(Eng.), L.R.C.P. (Lond.).....Demonstrator.

William Gibson, M.D.....Demonstrator.

Mental Diseases.

W. C. Barber, M.D. (Tor.), M.D., C.M.
(Vic.).....Asst. Supt. Rockwood Hospital for
Insane, Professor.

Anatomy.

Edward Ryan, B.A., M.D.....Professor of Applied Anatomy.

G. W. Mylks, M.D.....Associate Professor of Applied Anatomy.

F. Etherington, M.D., L.R.C.P. and S.
(Edin.).....Professor of Anatomy.

A. W. Richardson, B.A., M.D.....	} Demonstrators.
C. A. Morrison, M.D.....	
W. Gibson, M.D., C.M.....	
J. F. Sparks, B.A., M.D.....	

Biology, Physiology and Histology.

A. P. Knight, M.A., M.D.....	Professor.
F. Etherington, M.D., L.R.C.P. and S. (Edin.).....	Lecturer in Animal Morphology.
I. G. Bogart, M.D.....	Demonstrator.

Chemistry and Applied Chemistry.

W. L. Goodwin, D.Sc. (Edin.).....	Professor.
Isaac Wood, M.A., M.D., M.R.C.S. (Eng.), F.O.S. (Edin.).....	Lecturer.
A. R. B. Williamson, M.A., M.D.....	Lecturer.
J. F. Sparks, B.A., M.D.....	Lecturer.

Physics.

A. L. Clark, M.A., Ph.D.....	Professor.
W. C. Baker, M.A.....	Demonstrator.

Librarian.

Professor Williamson.

Secretary of the Faculty.

Professor Williamson.

V.—Faculty of Education.

Cecil F. Lavell, M.A.....	Professor of the History of Education and Dean of the Faculty.
O. J. Stevenson, M.A., D. Paed.....	Associate Professor of Education.
W. S. Ellis, M.A.....	Lecturer on High School Management and on Methods in Science.
J. Russell Stuart.....	Lecturer on Elementary Education.
E. O. Sliter, M.A.....	Lecturer on Methods in Classics.
W. R. Sills, M.A.....	Lecturer on Methods in Mathematics.
George S. Bale, B.A.....	Lecturer on Methods in French and German.
R. H. Walks, B.A.....	Lecturer on Methods in English.
Augustus F. Hatch, B.A.....	Lecturer on Drawing and Manual Training.
James A. Ramsay.....	Lecturer on Commercial Work.

W. J. Saunders, M.A.....	Associate Lecturer on Methods in Science.
Margaret King.....	Instructor in Color Work.
J. G. Ettinger.....	Instructor in Music.
Susie Bawden.....	Instructor in Household Science.
James Bews.....	Instructor in Physical Training
George Y. Chown.....	Registrar and Treasurer.

VI.—Examiners in Law.

J. L. Whiting, M.A., K.C.....	Criminal Law.
R. Vashon Rogers, B.A., K.C., LL.D.....	Common Law.
G. M. Macdonnell, B.A., K.C.....	The Law of Real Property.
John McIntyre, M.A., K.C.....	Medical Jurisprudence.

OTHER OFFICERS.

Registrar of University Council.

FRANCIS KING, M.A.

Observatory Board.

THE PRINCIPAL.

Curators of Library.

PROFESSORS ROSS, KNIGHT AND MACGILLIVRAY.

Librarian.

MISS LOIS SAUNDERS.

Curators of Museum.

PROFESSORS OF BIOLOGY AND GEOLOGY.

Examiner in Medical Matriculation.

ARTHUR E. ROSS, F.A., M.D.

Examiners in Gaelic.

REV. M. MACGILLIVRAY, M.A., AND JOHN MATHESON, M.A.

Janitor.

JOHN V. BURTON.

TIME TABLE—ARTS.

HOOR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8	Jr. English, A. *German. Senior Hebrew. *Mineralogy.	Jr. English, B. *German. Junior Hebrew. *Mathematics. *Mineralogy.	Jr. English, A. *German. Senior Hebrew. *Mathematics. *Mineralogy.	Sr. Chemistry III Jr. English, B. *German. Junior Hebrew. *Mineralogy.	*Chemistry. Jr. English, A. & B. *German. Junior Hebrew. *Mineralogy.	*Assaying.
9	Animal Biology. Junior Greek. Eng. History. Mental Philosophy *Philosophy. *Pol. Science.	Senior Physics. Junior Greek. Mod. History. Moral Philosophy. *Philosophy. *Pol. Science. *Chemistry.	Animal Biology. Junior Greek. Eng. History. Mental Philosophy *Philosophy. *Pol. Science. *Mineralogy.	Senior Physics. Junior Greek. Eng. History. Moral Philosophy. *Philosophy. *Pol. Science.	Animal Biology. Junior Greek. Eng. History. Mental Philosophy *Philosophy. *Pol. Science. *Chemistry. *Mathematics.	*Assaying.
10	*Botany. Economics. Senior French. *Geology. *German. *History. Junior Latin. *Latin. Junior Physics. *Physics. *Philosophy.	Botany (Arts). Sr. English A. Senior French. *Geology. *German. *History. Junior Latin. *Latin. Sr. Mathematics.	*Botany and (Arts). Economics. Sr. English B. *Geology. *German. *History. Junior Latin. *Latin. *Mathematics.	Botany (Arts). Senior French. *Geology. *History. Junior Latin. *Latin. Sr. Mathematics. *Mathematics.	*Botany. Economics. Senior French. *Geology. *German. *History. Junior Latin. *Latin. *French. *Mathematics. Italian.	*Assaying.
11	*Botany. Junior Chemistry. *English. *Geology. Junior German. *Greek. Senior Latin. *Mathematics. Fl. Mineralogy.	*Botany. Junior Chemistry. English (Tutorial). *Geology. Junior German. *Greek. Senior Latin. *Mathematics. *Mineralogy.	*Botany. Junior Chemistry. (Practical). *English. *Geology. Junior German. *Greek. Senior Latin. *Mathematics. *Mineralogy.	*Botany. Sr. Chemistry I. *Eng. (Hist. of Art). *Geology. Junior German. *Greek. Senior Latin. *Mathematics.	*Botany. Sr. Chemistry, II. *English. *Geology. Junior German. *Greek. Latin.	*Assaying.

12	*An. Biology. Sr. German. *Sr. Greek. *French. Prep. Latin. *Philosophy.	*An. Biology. Jr. English, A. Sr. German. *Sr. Greek. *French. *Philosophy.	*An. Biology. Sr. German. *Sr. Greek. *French. Prep. Latin. *Philosophy.	*An. Biology. Jr. English, B. Sr. German. *Sr. Greek. *French. *Philosophy.	*An. Biology. Astronomy. Sr. German. *Sr. Greek. *French. *Latin. Prep. Latin. *Philosophy.	*‡Assaying.
1		Botany (Med.)		Botany (Med.)		
2	Sr. English A. Jr. French. *Mathematics. *Mineralogy.	*Chemistry. Sr. English, B. Jr. French. Geology. *Physics.	Sr. English A. Jr. French. Sr. French. *Physics.	Botany (Med.) Sr. English, A. & B. Jr. French. Geology. *Physics.	Blowpipe Analysis. Sr. English, B. Jr. French. *English.	*‡Assaying.
3	*Chemistry. Jr. Chemistry, A. (Practical). *Mathematics. Jr. Mathematics *Chemistry. *Anglo-Saxon.	*Chemistry. *Mathematics. Jr. Physics. *Physics.	*Chemistry. *Mathematics. Jr. Mathematics	*Chemistry. *Mathematics. Jr. Physics. *Physics. *Anglo-Saxon.	*Chemistry. Sr. Hebrew. *Mathematics. Jr. Mathematics	*‡Assaying.
4	Eng. Bible. Prep. German.	Eng. Bible.	Prep. German.	University Y.M.C.A.	Prep. German.	*‡Assaying.

*Denotes Honours.
‡Second term only.

N.B.—Periods for honour classes in Mineralogy will be arranged to suit the convenience of students and professor.

TIME TABLE—THEOLOGY.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8	Sr. Hebrew.	Jr. Hebrew.	Sr. Hebrew.	Jr. Hebrew.	Jr. Hebrew.
9		*O.T.Criticism	*N.T.Criticism	*O.T.Criticism	Pract.Theology.
10	N. T. Criticism	History of Dogma.	O.T.Criticism.	N. T. Criticism	O.T.Criticism.
11	Ch. History.	Divinity.	Divinity.	Ch. History.	Ch. History.
12	Apologetics.	O. T. Theology.	N. T. Theology.	Pract.Theology.	Apologetics.
3		Eng. Bible.	N.T.Language.		Sr. Hebrew.
4	Eng. Bible.	Eng. Bible.	*Ch. History.		

*Denotes Honours. Classes for post graduate work will be arranged at the beginning of the session.

JUNIOR AND SENIOR MATRICULATION EXAMINATIONS.

SEPTEMBER, 1909.

		9 A.M.	2 P.M.
Thursday,	16th Sept.	—English Composition.	Eng. Literature.
Friday,	17th “	—History.	Chemistry.
Saturday,	18th “	—Latin Authors.	Latin Grammar & Com- position.
Monday,	20th “	—Physics.	
Tuesday,	21st “	—Geometry.	Algebra.
Wednesday,	22nd “	—French Authors.	French Grammar & Com- position.
Thursday,	23rd “	—Greek Authors.	Greek Grammar & Com- position.
		German Authors.	German Grammar & Com- position.
Friday,	24th “	—Botany.	Animal Biology.

PASS SUPPLEMENTAL EXAMINATIONS.

SEPTEMBER, 1909.

		9 A.M.	2 P.M.
Tuesday,	14th Sept.	—Jr. Latin.	Sr. Latin.
Wednesday,	15th “	—Economics.	Politics.
Thursday,	16th “	—Jr. English.	Sr. English.
Friday,	17th “	—English History.	Modern History.
			History.
Saturday,	18th “	—Mental Philosophy.	Moral Philosophy.
Monday,	20th “	—Jr. Physics.	Sr. Physics.
Tuesday,	21st “	—Jr. Mathematics.	Sr. Mathematics.
Wednesday,	22nd “	—Mineralogy.	Geology.
		*Jr. French.	**Sr. French.
Thursday,	23rd “	—Jr. Greek.	Sr. Greek.
		*Jr. German.	**Sr. German.
Friday,	24th “	—Botany.	Animal Biology.
Saturday,	25th “	—Jr. Chemistry.	Sr. Chemistry.
Tuesday,	26th Oct.	—Jr. Hebrew.	Sr. Hebrew.

*8.30 Dictation.

**1.30 Dictation.

PASS EXAMINATIONS.

APRIL, 1910.

ARTS.

9 A.M.

2 P.M.

Monday,	4th April—*	Jr. French.	**Sr. French.
Tuesday,	5th	“ —Jr. Chemistry.	Sr. Chemistry.
Wednesday,	6th	“ —Jr. English.	Mineralogy.
Thursday,	7th	“ —Sr. English.	Geology.
Friday,	8th	“ —Economics.	Politics.
Saturday,	9th	“ —Jr. Mathematics.	Modern History.
Monday,	11th	“ —Sr. Mathematics.	English History.
Tuesday,	12th	“ —Jr. Latin.	Sr. Latin.
Wednesday,	13th	“ —Mental Philosophy.	Moral Philosophy.
Thursday,	14th	“ —Jr. Physics.	Sr. Physics.
Friday,	15th	“ —*Jr. German.	**Sr. German.
Saturday,	16th	“ —Jr. Greek.	Sr. Greek.
Monday,	18th	“ —Botany.	Animal Biology.
Tuesday,	19th	“ —Jr. Hebrew.	Sr. Hebrew.

THEOLOGY.

9 A.M.

Monday,	11th April—	Church History.
Tuesday,	12th	“ —O. T. Criticism.
Wednesday,	13th	“ —Sr. O. T. Criticism.
Thursday,	14th	“ —New Testament Criticism.
Friday,	15th	“ —Divinity.
Saturday,	16th	“ —Apologetics.

Three hours allowed for each paper.

Time Table for Honour Examinations will be issued in March.

*8.30 Dictation.

**1.30 Dictation.

GENERAL ANNOUNCEMENT.

QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The Sixty-ninth Session will open on Wednesday, the 29th of September, 1909.

BOARDING.—Lists of Boarding houses may be obtained from the Registrar. A residence for a limited number of women students has been recently established. Persons desiring information should write to "The Secretary of Woman's Residence, Queen's University, Kingston."

HOSPITAL PRIVILEGES.—The Governors of the Kingston General Hospital agree to give to those students who take out Hospital tickets (cost, \$1) all the advantages of a private room, including room, board, attendance of nurses in training, and ordinary medicines, when requiring medical or surgical treatment, from October 1st to May 1st. These benefits are conditional on 250 students taking out tickets by November 1st.

REGISTRATION.—All students are required to have their names entered in the University Register. Before registration they must pay the required fees.

ATTENDANCE AT CHURCH.—All students are expected to attend the churches to which they profess to belong, and produce certificates of attendance from their clergymen when required.

THE LIBRARY contains about 50,000 volumes. Students are entitled to the use of it subject to by-laws.

Intra-mural students wishing to obtain books from the Library are required to make a deposit of \$1.00 for one book, \$2.00 for two books, or \$3.00 for three books. No fee is required, and deposit is refunded when desired.

The Consulting Libraries I and II, containing dictionaries, encyclopedias, books prescribed for essays and books of reference, are open to students, subject to certain regulations. A special section is devoted to Mental and Moral Philosophy, and all students taking these subjects are expected to provide themselves with keys for the cupboards, for which a deposit of \$1.00 is required.

Extra-mural students may obtain books from the Library on payment of a deposit of \$2.00 for one book, \$4.00 for two, and \$5.00 for three. Deposit may be withdrawn at any time. There is no fee, but the postage is paid by the borrower, being deducted from deposit before returning. For further particulars and regulations apply to the Librarian. Special arrangements are made for supplying the necessary books to extra-mural students in the Ph.D., B. Paed. and D. Paed. courses.

All communications concerning books, and all deposits must be made directly to the Librarian.

J. McDonald Mowat, Esq., B.A., Kingston, Ont., agreed to give the sum of \$25.00 annually to the Political Science Department to be expended in the purchase of books. For the present this sum will go towards obtaining the

British Blue Books. In this and all donations of a similar nature, the books will be marked with the donor's name, and the department for which they are given.

THE MUSEUM.—The Geological collections, embracing rocks, minerals and fossils, contain the following:

1. The Bell collections, illustrating a north and south stratagraphical section across the Province from Lake Erie, 1,000 specimens. Section across the Ottawa River, 500.

2. Specimens of rocks and minerals from various sources, 3,600.

3. Specimens of fossils, 5,000. The rocks and minerals contributed and collected during late years are deposited in the collections of the School of Mining.

4. The Botanical collection contains 1,200 genera, 3,650 species, and 10,000 sheets of mounted plants. The private herbarium in the museum contains 2,157 genera, 9,000 species, and 16,000 sheets. These include large collections of Tasmanian, Australian, South African, European and Asiatic species. The flora of the British Islands is almost completely represented. A large addition has been recently made to the herbarium.

5. The Zoological collection contains: Mammals, 35; birds, 175; fish, 60; invertebrates, about 200 in alcohol and 150 dry; a small collection of reptiles, and another of insects; the mollusca are represented by about 2,600 shells.

ACADEMIC COSTUME.—All graduates and undergraduates when attending class or any college meeting, shall wear the costume prescribed by the University.

Each degree has its distinctive hood, as follows: B.A., black, bordered with red silk; M.A., scarlet; B.Sc., black silk, bordered with yellow silk; D.Sc., black silk, lined with blue silk, bordered with white; M.D., scarlet, bordered with white; B.D., white, bordered with crimson plush; D.D., black silk, lined with white silk; LL.B., blue, bordered with white fur; LL.D., black silk, lined with blue silk; Ph.D., black silk, lined with purple, bordered with white.

DEGREES.—Applications for degrees will be considered only when returns for April and September examinations are submitted and at the meeting of Senate immediately preceding Christmas vacation.

FEEES.

Graduation and spring examination fees must be paid before March 23rd; supplemental examination fees before September 1st; all other fees on or before October 9th. Intra-mural students should register promptly on the opening of the session. Students failing to register within ten days of the opening of the session shall pay an extra registration fee of \$3. In order to write on examinations, students who have been registered in former sessions must be registered and in attendance by November 15th, or, if unable to attend until after Christmas, must register as extra-mural students by October 21st. Fees thus paid will be applied on intra-mural fees in January.

I. FACULTY OF ARTS.

Senior Matriculation Examination	\$10 00
Senior Matriculation on <i>pro tanto</i> certificate	10 00
Junior Matriculation Examination	5 00
Arts Society fee payable by male students on registration.....	1 00
Athletics	per session \$3 00
Registration	" 10 00
Class Fees	" 25 00
†Any class except those mentioned below	" 8 00
†Junior Chemistry	" 12 00
†Senior Chemistry	" 12 00
Pass Examination, April or September	" 10 00
Honour Examination	" 12 00
Special for Intra-mural students who write at outside centres.....	5 00
Change of classes after registration.	2 00

SPECIAL FEES.

Laboratory—Honour Qualitative Analysis	per session \$15 00
" Honour Quantitative Analysis	" 15 00
" Physics, Pass or Prelim. Honour.....	" 2 00
Laboratory—Physics, Final or Exper. Honour.....	" 10 00
" Botany, Pass Course	" 3 00
" †Botany, Honour Course	" 5 00
" Animal Biology, Pass Course	" 5 00
" Animal Biology, Preliminary Honours	" 15 00
" Animal Biology, Final Honours	" 10 00
Junior Philosophy (correcting essays).....	1 00
Matriculation Certificate	5 00
Certificate of standing	1 00
Graduation—Bachelor of Arts (B.A.).....	10 00
" Master of Arts (M.A.).....	20 00
" Doctor of Philosophy (Ph.D.).....	50 00
" Doctor of Science (D.Sc.).....	50 00
Admission ad eundum gradum (B.A.).....	20 00
" " statum	10 00

Students taking Physics, Chemistry, Geology or Mineralogy must register in the School of Mining, pay the fee of \$1.00 and make a deposit of \$5.00.

†Students collecting 200 specimens for their own use will be exempt from this fee.

†These fees apply only to unmatriculated students who do not pay full class fees.

II. FACULTY OF PRACTICAL SCIENCE.

Matriculation Examination (September)	\$ 5 00
Registration	per session 10 00
Athletics	" 3 00

†Class Fees	per session	\$60 00
Pass Examination, April or September	"	10 00

FOR STUDENTS NOT PAYING CLASS FEES AS ABOVE.

Any Class	per session	\$12 00
Laboratory—Qualitative Analysis	"	15 00
" Quantitative Analysis	"	15 00
" Mechanical and Engineering	"	20 00
" Honour Practical Physics	"	10 00
" Pass Practical Physics	"	2 00
" Petrography	"	5 00
" Assaying	"	5 00
Certificate of standing		1 00
Graduation—B.Sc.		20 00
" M.E.		20 00
Admission ad eundem statum		10 00

†Any student registered in 1905 or previously will only require to pay \$50 class fees per session.

III. FACULTY OF MEDICINE.

Matriculation Examination Fee	\$ 5 00
Registration Fee (for those taking partial courses) 1st year.....	5 00
Each year thereafter	2 00
Sessional Fee for each of the first four years	100 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination, Laboratories, and the required amount of dissection material, is \$100.00 per session. If not paid in full before Nov. 1st, \$105.00. Special arrangements will be made with those who do not take the full course in any year. All fees must be paid by Feb. 1st.

Fifth year	\$ 50 00
Supplemental Examinations (each year)	10 00
Hospital Ticket—full course, payable with second year's fees.....	25 00
Hospital Ticket—one session	9 00
<i>Ad eundem statum</i>	10 00
Graduation—M.B.	20 00
—M.D., C.M.	30 00
—D.Sc.	50 00
—D.P.H.	20 00
Exclusive use of Microscope, per session	5 00

B.Sc. and M.B. Course.

First Year	\$ 55 00
Second Year	55 00
Third Year	60 00
Fourth Year	65 00

IV. FACULTY OF THEOLOGY.

Registration	per session	\$ 5 00
Matriculation	"	2 00
Athletics	"	3 00
Pass Examination	"	3 00
Supplemental Pass Examination	"	3 00
B.D. Examination	"	6 00

SPECIAL FEES.

Testamur	\$ 2 00
Graduation.—Bachelor of Divinity	20 00
Admission ad eundem statum	10 00

V. FACULTY OF EDUCATION.

General or Advanced Course (with or without course for Specialist), including library, gymnasium and examination	per session	\$15 00
Examination, when not taken during regular session, or taken by students not in attendance—Part I, or II.....	"	10 00
Parts I and II	"	15 00
Specialist examination taken alone, each paper.....	"	5 00
Inspector's examination	"	15 00
Diploma	"	2 00
Graduation, Bachelor of Pedagogy (B.Paed.).....	"	20 00
" Doctor of Pedagogy (D.Paed.)	"	25 00

VI. FACULTY OF LAW.

Registration	per session	\$10 00
Examination	"	10 00

SPECIAL FEES.

Graduation.—Bachelor of Laws (LL.B.).....	\$ 20 00
Admission ad eundem gradum	20 00
Admission ad eundem statum	10 00

VII. AGRICULTURE.

For information apply to J. W. Mitchell, B.A., Superintendent of Dairy School.

FACULTY OF ARTS.

ARTICLE I.—PASS MATRICULATION.

GENERAL REGULATIONS.

1. The Classes in the University are open to unmatriculated students but candidates for a degree must pass the matriculation examination or an examination accepted by the Senate as equivalent before being admitted to examination on the University courses.

2. Any person presenting a Departmental certificate of matriculation will be admitted as an undergraduate upon paying the registration fee. Any person will be exempt from any part of the Matriculation Examination already passed.

3. Any person who is permitted to attend on presentation of an Ontario Junior Leaving or Entrance to Model School certificate or equivalent certificate from any of the other Provinces which does not include Latin, must take Latin for one session and matriculate in this subject before entering the Junior class, and if he has not passed the Matriculation examination in Greek, French or German he must in his first or second year come up for examination in either the Matriculation or the Junior class work in one of these three subjects.

4. The examination in July will be that conducted for the Universities by the Education Department, known as the Departmental Junior Matriculation Examination. The examination will be held at Queen's University and at the various Collegiate Institutes and High Schools in Ontario. Candidates for this examination, if they propose to write at a Collegiate Institute or High School, must notify the Public School Inspector of their city or county, and pay him the fee before May 22nd, and at the same time send notice to the University Registrar on a form which will be supplied on application. Candidates proposing to write at Queen's University must send the required notice to the Registrar by May 22nd, accompanied by the fee.

5. A second examination will begin at Queen's University on September 16th, 1909. Notice of intention to appear at this examination, together with the fee, must be sent to the Registrar by Sep-

tember 1st, on a form which will be supplied on application. A candidate failing partially in July and desiring to complete the examination in September, and who did not write at Queen's University, must send a copy of the marks obtained in the July examination, certified by the headmaster of the school at which he wrote.

6. The fees for Matriculation are:—Junior Matriculation, \$5.00; Supplemental examination, in Junior Matriculation subjects in which the candidate has failed, \$2.00 for each subject; total fee not to exceed \$5.00. Senior Matriculation, \$10.00.

7. All candidates for Junior Matriculation shall take English Composition, English Literature, Algebra, Geometry, History (British, Canadian and Ancient), Latin, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

8. The percentage for Pass is forty on each paper.

9. In determining results the confidential reports of the Principals are hereafter to be considered.

10. Candidates who matriculate in any University in the British Empire will be allowed to enter upon a course without further examination. Matriculation Examination from Universities in other countries will be accepted *pro tanto*.

11. Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examination, *i.e.*, in so far as the subjects correspond as follows:—

Ontario.....	Jr. Leaving, Entrance to Normal School.
Prince Edward Island...	Second Class.
Nova Scotia.....	Grade XI.
New Brunswick.....	Second Class.
Quebec.....	{ Academy Grade III. University School AA
Manitoba.....	
Alberta.....	Grade VII.
Saskatchewan.....	Grade VII.
British Columbia.....	Intermediate.

12. In the case of students over the age of 21 the Senate may postpone the Matriculation examination.

13. Junior Leaving certificates will be accepted *pro rata* at the Junior Matriculation examination.

14. Matriculation scholarships will be awarded on the results of the July Departmental Matriculation examination. See article on Matriculation Scholarships.

15. Candidates for Scholarships must notify the Registrar not later than May 22nd, stating distinctly where they intend to write, and declaring their intention to enter, if successful, on a course of study in Queen's University.

SPECIAL RATES FOR STUDENTS ATTENDING QUEEN'S UNIVERSITY OR
THE SCHOOL OF MINING.

Territory:—Between Kingston and any station on the Canadian Pacific Railway, the Grand Trunk Railway, the Canadian Northern Railway, or the Intercolonial Railway in Canada, either direct or over any one of the other lines, where the one way regular first-class rate is \$20 or more.

Condition:—If any student is coming to attend Queen's College or the School of Mining *for the first time*, a certificate to that effect will be accepted from parent, guardian, clergyman or magistrate. Subsequently, going to or returning from Kingston, certificates must be signed by the Registrar of the University.

Rate:—One way continuous passage tickets will be issued at half the regular, first-class, one way rate, *minimum rate to be charged*, \$20. *For example, if the first-class, one way rate is \$50, \$25 will be charged, but if the one way rate is less than \$40, \$20 will be collected.*

Expenses of a Course:—The following statement of expenses is made from information obtained from students who have kept an account of their expenditures. Personal expenses are not included in the estimates. The average expense for class fees is taken in this estimate.

For a Session (October to May).

Board, lodging and washing	\$100 to \$150
Books and stationery	15 " 25
Incidentals	10 " 15
Class and other fees	50 " 50
	<hr/>
	\$175 \$240

These estimates are based on board, etc., at from \$3.50 to \$5.00 per week, at which rate good board may be obtained in Kingston.

The fee for graduation is not included in the estimate. Students taking Science classes will pay additional Laboratory fees.

SUBJECTS OF JUNIOR MATRICULATION.

GREEK.

Translation into English of passages from the prescribed texts, with questions thereon.

Translation at sight of simple narrative passages similar to the Xenophon prescribed.

Questions in Greek accidence and on the common rules of Greek syntax, to test the candidate's accuracy and comprehension in such matters as are needful for the intelligent reading of his texts.

The following are the prescribed texts:—

1910: Xenophon, *Philpotts and Jerram*, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, *Iliad* VI, 66-118 and 237 to the end.

1911: Xenophon, *Philpotts and Jerram*, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, *Iliad* I, 1-350.

Two papers will be set: (1) Prescribed texts; (2) translation at sight, accidence and syntax.

LATIN.

Translation at sight of passages of average difficulty from Cæsar, upon which special stress will be laid.

Translation with questions from a prescribed portion of Virgil's *Aeneid*.

Questions on Latin accidence.

Translation into Latin of English sentences, involving a knowledge of the following principles of Latin syntax; the common use of the cases; the accusative with the infinitive; the subjunctive in simple sentences; final and result clauses; the law of sequence of tenses; the indirect question; verbs of fearing, doubting and hindering: the use of the participle, gerund and gerundive, active and passive periphrastic; indirect discourse; and the common forms of the conditional sentence. The vocabulary will be taken from the prescribed portion of Cæsar, and special stress will be laid upon this part of the examination. The marks assigned for the translation from prescribed authors shall not be more than 25 per cent. of the total marks assigned to the Latin papers.

Examination upon a short prescribed portion of Cæsar, to test the candidate's knowledge of Latin syntax and his power of idiomatic translation.

The following are the texts prescribed:—

1910-1911: Cæsar, *Bellum Gallicum*, Book IV, chaps. 20-38, and Book V, chaps. 1-23; Virgil, *Æneid*, Book I, vv. 1-510.

Two papers will be set: (1) Translation at sight, Virgil, and accidence. (2) Translation into Latin, syntax and idiomatic translation from prescribed Cæsar, etc.

ENGLISH.

Grammar and Rhetoric: The main facts in the development of the language. Etymology and syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words. The rhetorical structure of the sentence and paragraph.

One examination paper.

Composition: An essay to which special importance will be attached, on one of several themes set by the examiner.

One examination paper.

Literature: The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art. The candidate shall produce satisfactory proof by the certificate of the Principal of the school from which he comes, or otherwise, that he has read carefully during the preceding year at least four suitable works in English Literature (both prose and poetry) in addition to those prescribed below for examination.

One examination paper.

1910: Tennyson, Ode to Memory, The Dying Swan, The Lotus Eaters, Ulysses, "You ask me, why," "Of old sat Freedom," "Love thou thy land," "Tears, idle tears," and the six interlude songs from the Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade, Enoch Arden; Shakespeare, Julius Caesar.

1911: Tennyson, The Poet, The Lady of Shalott, Oenone, The Epic and Morte d'Arthur, St Agnes' Eve, The Voyage, "Break, break, break," In the Valley of the Caunteretz; Browning, My Last Duchess, "How they brought the good news from Ghent to Aix," Love among the Ruins, Home Thoughts from Abroad, Up at a Villa, Andrea del Sarto, The Guardian Angel, Prose-pice, An Epistle of Karshish, Cavalier Tunes; Shakespeare, Macbeth.

GERMAN.

The candidate's knowledge of German will be tested by: (1) simple questions on grammar; (2) the translation of simple passages from English into German; (3) Translation at sight of easy passages from modern German, and (4) an examination on the following prescribed texts:—

The texts contained in the High School German Reader.

1910: *Hauff*, Das kalte Herz.

1911: *Leander*, Träumereien, pp. 45-90 (selected by Van Daell)

Two papers will be set: (1) Prescribed texts and translation at sight; questions on grammar; (2) the translation of English into German.

FRENCH.

The candidate's knowledge of French will be tested by: (1) simple questions on grammar; (2) the translation of simple passages from English into

French; (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts:—

Lamennais, Paroles d'un Croyant, Chaps. VII and XVII; *Perrault*, Le Maître Chat ou le Chat Botté; *Dumas*, Un Nez Gelé, and La Pipe de Jean Bart; *Alphonse Daudet*, La Dernière classe, and la Chèvre de M. Seguin; *Legouvé*, La Patte de Dindon; *Pouillon*, Hortibus; *Loti*, Chagrin d'un Vieux Forçat; *Molière*, L'Avare, Acte III, sc. 5 (Est-ce à votre cocher . . . sous la mienne); *Victor Hugo*, Waterloo, Chap. IX; *Rouget de L'Isle*, La Marseillaise; *Arnault*, le Feuille; *Chateaubriand*, l'Exilé; *Théophile Gautier*, la Chimère; *Victor Hugo*, Extase; *Lamartine*, L'Automme; *De Musset*, Tristesse; *Sully Prudhomme*, Le Vase brisé; *La Fontaine*, Le Chêne et Le Roseau.

1910: *Scribe*, Le Verre d'eau.

1911: *Labiche*, La Grammaire.

Two papers will be set: (1) Prescribed texts and translations at sight; questions on grammar; (2) the translation of English into French.

HISTORY.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British and Canadian history.

The geography relating to the history prescribed.

One half examination paper.

General outlines of Greek history to the fall of Corinth.

General outlines of Roman history to the death of Augustus.

The geography relating to the history prescribed.

One half examination paper.

MATHEMATICS.

Arithmetic.—Elementary rules, fractions (vulgar and decimal), contracted methods of computation, square root, interest, discount, commission, insurance, stocks and exchange.

Mensuration.—The rectangle, the parallelogram, the triangle, the circle, the parallelepiped, the prism, and the cylinder.

One examination paper.

NOTE.—The problems proposed at this examination shall be simple and direct, and in their solution neatness and accuracy will be insisted on.

Algebra.—Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices; surds; quadratics of one and two unknown quantities.

One examination paper.

Geometry.—A.—CONSTRUCTIONS.

To construct a triangle with sides of given lengths.

To construct an angle equal to a given rectilineal angle.

To bisect a given angle.

- To bisect a given straight line.
- To draw a line perpendicular to a given line from a given point in it.
- To draw a line perpendicular to a given line from a given point not in the line.
- Locus of a point equidistant from two given lines.
- Locus of a point equidistant from two given points.
- To draw a line parallel to another, through a given point.
- To divide a given line into any number of equal parts.
- To describe a parallelogram equal to a given triangle, and having an angle equal to a given angle.
- To describe a parallelogram equal to a given rectilineal figure, and having an angle equal to a given angle.
- On a given straight line to describe a parallelogram equal to a given triangle, and having an angle equal to a given angle.
- To find the centre of a given circle.
- From a given point to draw a tangent to a given circle.
- On a given straight line to construct a segment of a circle containing an angle equal to a given angle.
- From a given circle to cut off a segment containing an angle equal to a given angle.
- In a circle to inscribe a triangle equiangular to a given triangle.
- To find locus of centres of circles touching two given lines.
- To inscribe a circle in a given triangle.
- To describe a circle touching three given straight lines.
- To describe a circle about a given triangle.
- About a given circle to describe a triangle equiangular to a given triangle.
- To divide a given line similarly to another given divided line.
- To find the fourth proportional to three given lines.
- To describe a polygon similar to a given polygon, and with the corresponding sides in a given ratio.
- To find the mean proportional between two given straight lines.
- To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.
- To describe a polygon of a given size and shape.

B.—THEOREMS.

- The sum of the angles of any triangle is equal to two right angles.
- The angles at the base of an isosceles triangle are equal, with converse.
- If the three sides of one triangle be equal, respectively, to the three sides of another, the triangles are equal in all respects.
- If two sides and the included angle of one triangle be equal to two sides and the included angle of another triangle, the triangles are equal in all respects.
- If two angles and one side of a triangle be equal to two angles and the corresponding side of another, the triangles are equal in all respects.

If two sides and an angle opposite one of these sides be equal, respectively, in two triangles, the angles opposite the other pair of equal sides are either equal or supplemental.

The sum of the exterior angles of a polygon is four right angles.

The greater side of any triangle has the greater angle opposite it.

The greater angle of any triangle has the greater side opposite it.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base, with converse.

If a transversal fall on two parallel lines, relations between angles formed, with converse.

Lines which join equal and parallel lines towards the same parts are themselves equal and parallel.

The opposite sides and angles of a parallelogram are equal and the diagonal bisects it.

Parallelograms on the same base, or on equal bases, and between the same parallels are equal.

Triangles on the same base, or on equal bases, and between the same parallels are equal.

Triangles equal in area, and on the same base, are between the same parallels.

If a parallelogram and a triangle be on the same base, and between the same parallels, the parallelogram is double the triangle.

Expressions for area of a parallelogram, and area of a triangle.

The complements of parallelograms about the diagonal of any parallelogram are equal.

The square on the hypotenuse of a right-angled triangle is equal to the sum of the squares on the sides.

If a straight line be divided into any two parts, the sum of the squares on the parts, together with twice the rectangle contained by the parts, is equal to the square on the whole line.

The square on a side of any triangle is equal to the sum of the squares on the two other sides \pm twice the rectangle contained by either of these sides and the projection of the other side on it.

If more than two equal straight lines can be drawn from the circumference of a circle to a point within it, that point is the centre.

The diameter is the greatest chord in a circle, and a chord nearer the centre is greater than one more remote. Also the greater chord is nearer the centre than the less.

The angle at the centre of a circle is double the angle at the circumference on the same arc.

The angles in the same segment of a circle are equal, with converse.

The opposite angles of a quadrilateral inscribed in a circle are together equal to two right angles, with converse.

The angle in a semicircle is a right angle; in a segment greater than a semicircle less than a right angle; in a segment less than a semicircle greater than a right angle.

A tangent is perpendicular to the radius to the point of contact; only one tangent can be drawn at a given point; the perpendicular to the tangent at the point of contact passes through the centre; the perpendicular from centre on tangent passes through the point of contact.

If two circles touch, the line joining the centres passes through the point of contact.

The angles which a chord drawn from the point of contact makes with the tangent, are equal to the angles in the alternate segments.

The rectangles under the segments of intersecting chords are equal.

If $OA \cdot OB = OC^2$, OC is a tangent to the circle through A , B and C .

Triangles of the same altitude are as their bases.

A line parallel to the base of a triangle divides the sides proportionately, with converse.

If a vertical angle of a triangle be bisected, the bisector divides the base into segments that are as the sides, with converse.

The analogous proposition when the exterior angle at the vertex is bisected, with converse.

If two triangles are equiangular, the sides are proportional.

If the sides of two triangles are proportional, the triangles are equiangular.

If the sides of two triangles about equal angles are proportional, the triangles are equiangular.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

Similar triangles are as the squares on corresponding sides.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two which are similar to the original triangle.

In equal circles angles, whether at the centres of circumferences, are proportional to the arcs on which they stand.

The areas of two similar polygons are as the squares on corresponding sides.

If three lines be proportional, the first is to the third as the figure on the first to a similar figure on the second.

Questions and easy deductions on the preceding constructions and theorems.

It is recommended that the study of formal demonstrative Geometry be preceded by a course in Practical Geometry, extending over not more than a year, and embracing the following:—

Definitions; fundamental geometric conceptions and principles; use of simple instruments, as compasses, protractor, graduated rule, etc.; measurement of lines and angles, and the construction of lines and angles of given numerical magnitude; accurate construction of figures; some leading propositions in plane geometry reached by induction as a result of accurate construction of figures; deduction also employed as principles are reached and

assured. At the examination, questions may be given in Practical Geometry, the constructions being such as naturally spring from the prescribed course. Candidates must provide themselves with a graduated ruler, compasses, set-square and protractor.

In the formal deductive Geometry modifications of Euclid's treatment of the subject will be allowed, though not required, as follows:—

The employment of the "hypothetical construction."

The free employment of the method of superposition, including the rotation of figures about an axis, or about a point in a plane.

A modification of Euclid's parallel postulate.

A treatment of ratio and proportion restricted to the case in which the compared magnitudes are commensurable.

One examination paper.

ELEMENTARY EXPERIMENTAL SCIENCE.

Physics: Use of meter rule; use of calipers and vernier for more accurate metric measurements (e.g., diameters of wires, thickness of glass, plates, etc.); numerical calculations in the metric system.

Use of balance.

Specific gravity, by special gravity bottle and hydrostatic balance of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat, latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallisation and evaporation.

One half examination paper.

Chemistry: Properties of hydrogen, chlorine, oxygen, sulphur, nitrogen, carbon, and their different compounds, especially those of economic and industrial importance.

Mixtures, solutions, chemical compounds, elements, nomenclature, laws of chemical combination, reacting weights, chemical formulæ and equations, with easy numerical examples.

One half examination paper.

ARTICLE II.—SENIOR MATRICULATION.

1. Candidates who intend to pursue an Honour Course in the University are recommended to take the Senior Matriculation (Form IV) in as many subjects as possible.

2. Candidates for Senior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

*3. Candidates who have taken forty per cent. on the Senior Matriculation, Senior Leaving papers of Ontario, or Entrance to Faculty of Education, or equivalents in other Provinces, in Latin, Greek, French, German, Mathematics, English, History, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course in three years.

4. Any person presenting a Senior Leaving certificate of Ontario, or equivalent certificate, will be permitted to enter upon a University course. Any person entering with the Science option must, in his first examination, include either Junior Latin, Greek, French or German.

SUBJECTS OF SENIOR MATRICULATION.

GREEK.

Translation into English of passages from the prescribed texts, with questions thereon.

Translation at sight of prose passages of average difficulty from Xenophon's historical works.

Translation into Greek of sentences (based on Xenophon's vocabulary) to test the candidate's scholarship in matters of accidence, syntax and phraseology.

The following are the prescribed texts:—

1910-11: Xenophon, Hellenica, (Philpott's and Jerram's Selections, Sections I and II); Homer, Iliad I, 1-350; III, 121-244; VI, 66-118 and 237 to the end; Odyssey VI and IX.

Two papers will be set: (1) prescribed texts; (2) translation at sight and Greek prose composition.

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

LATIN.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty from Cæsar.

Grammatical questions on the passages from prescribed texts, and such other questions as arise naturally from the context.

Translation into Latin of English sentences to illustrate Latin syntax and of continuous passages of English, similar in style to the authors read.

The following are the prescribed texts:—

Caesar, *de Bello Gallico*, Books I and II; Horace, *Odes*, Book I, 1, 2, 5, 6, 10, 14, 22, 24, 31, 34, 35, 38; Book II, 3, 10, 14, 15, 16, 18; Book III, 1, 2, 3, 4, 5, 13, 21, 23, 24, 25, 29, 30; Book IV, 2, 4, 5, 7, 15.

1910, 1911: Virgil, *Æneid*, Book I, vv. 1-510; Cicero, in *Catilinam*, I and II.

Two examination papers: (1) Latin prose; (2) Authors and sight translation.

ENGLISH.

Composition: An essay on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

Literature: Such questions only will be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of the prescribed texts. The candidate will be expected to have memorised some of the finest passages. In addition to the questions on the prescribed selections others will be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1910: Tennyson, *Ode to Memory*, *The Dying Swan*, *The Lotus Eaters*, *Ulysses*, "You ask me, why," "Of old sat Freedom," "Love thou thy land," "Tears, idle tears," and the six interlude songs from the *Princess*, *The Brook*, *Ode on the Duke of Wellington*, *Charge of the Light Brigade*, *Enoch Arden*; Shakespeare, *Julius Cæsar*, *Mid-Summer Night's Dream*.

1911: Tennyson, *The Poet*, *The Lady of Shalott*, *Oenone*, *The Epic and Morte d'Arthur*, *St. Agnes' Eve*, *The Voyage*, "Break, break, break," *In the Valley of the Caunteretz*; Browning, *My Last Duchess*, "How they brought the good news from Ghent to Aix," *Love among the Ruins*, *Home Thoughts from Abroad*, *Up at a Villa*, *Andrea del Sarto*, *The Guardian Angel*, *Prospect*, *An Epistle of Karshish*, *Cavalier Tunes*; Shakespeare, *Macbeth*, *As You Like It*.

GERMAN.

The prescription of work in grammar, the translation of English into German and sight translation is the same for honours as for pass, but the examinations will be of a more advanced character.

The following are the prescribed texts:—

The texts contained in the High School German Reader.

1910: *Hauff*, Das kalte Herz; *Baumbach*, Der Schweigersohn; *Elz*, Er ist nicht eifersüchtig; *Wichert*, Post Festum.

1911: *Leander*, Träumereien, pp. 45 to 90 (selected by Van Daell). *Baumbach*, Der Schweigersohn; *Elz*, Er ist nicht eifersüchtig; *Wichert*, Post Festum.

FRENCH.

The prescription of work in grammar, the translation of English into French and sight translation, is the same for honours as for pass, but the examination will be of a more advanced character.

The following are the prescribed texts:—

Lamennais, Paroles d'un croyant, Chaps. VII and XVII; *Perrault*, le Maître Chat ou le Chat botté; *Dumas*, Un nez gelé, and la Pipe de Jean Bart; *Alphonse Daudet*, la dernière Classe, and la Chèvre de M. Seguin; *Legouvé*, La Patte de Dindon; *Pouvillon*, Hortibus; *Loti*, Chagrin d'un Vieux Forçat; *Molière*, L'Avare, Acte III, sc. 5, (Est-ce à votre cocher . . . sous la mienne); *Victor Hugo*, Waterloo, Chap. IX; *Rouget de l'Isle*, La Marseillaise; *Arnault*, La Feuille; *Chateaubriand*, L'Exilé; *Théophile Gautier*, La Chimère; *Victor Hugo*, Extase; *Lamartine*, L'Automme; *De Musset*, Tristesse; *Sully Prudhomme*, Le Vase brisé; *La Fontaine*, Le Chêne et le Roseau.

1910: *Scribe*, Le Verre d'eau; *Malot*, Remi en Angleterre, (ed. Margaret de G. Verral. Pitt. Press).

1911: *Labiche*, La Grammaire; *Chateaubriand*, Memoires d'outre-Tombe (selections published by Clarendon Press).

HISTORY.

General outline of mediæval and modern European history with special reference to British history.

The geography relating to the history prescribed.

One examination paper.

MATHEMATICS.

Algebra: Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices, surds, quadratics of one and two unknown quantities; theory of divisors; ratio, proportion and variation; progressions; notation; permutations and combinations; binomial theorem; interest forms; annuities.

One examination paper.

Trigonometry: Trigonometrical ratios with their relations to each other; sines, etc., of the sum and difference of angles with deduced formulas; use of logarithms; solution of triangles; expressions for the area of triangles; radii of circumscribed, inscribed and escribed circles.

One examination paper.

Geometry: A.—Exercises on the course prescribed for the pass examination, with special reference to the following topics:—loci, maxima and minima; the system of inscribed, escribed and circumscribed circles of a triangle, with metrical relations; radical axis.

B.—The following additional propositions in Synthetic Geometry, with exercises thereon:—

To divide a given straight line internally and externally in medial section.

To describe a square that shall be equal to a given rectilineal figure.

To describe an isosceles triangle having each of the angles at the base double of the third angle.

To inscribe a regular pentagon in a given circle.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If $A B C$ be a triangle, and A be joined to a point P of the base such that $B P : P C = m : n$, then $n A B^2 + m A C^2 = (m + n) A P^2 + n B P^2 + m P C^2$.

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the two other sides.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

The rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the two rectangles contained by its opposite sides.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

If a straight line meet the sides $B C$, $C A$, $A B$, of a triangle $A B C$ in D , E , F , respectively, then $B D \cdot C E \cdot A F = D C \cdot E A \cdot F B$, and conversely. (Menelaus' Theorem.)

If straight lines through the angular points A , B , C of a triangle are concurrent, and intersect the opposite sides in D , E , F , respectively, then $B D \cdot C E \cdot A F = D C \cdot E A \cdot F B$ and conversely. (Ceva's Theorem.)

If a point A lie on the polar of a point B with respect to a circle, then B lies on polar of A .

Any straight line which passes through a fixed point is cut harmonically by the point, any circle, and the polar of the point with respect to the circle.

In a complete quadrilateral each diagonal is divided harmonically by the two other diagonals, and the angular points through which it passes.

C.—*Elementary Analytical Geometry*: Axes of co-ordinates. Position of a point in plane of reference.

Transformation of co-ordinates,—origin changed, or axes (rectangular) turned through a given angle.

$$+2A = x_1(y_2 - y_3) + \dots + \dots$$

Co-ordinates of point dividing line joining $P_1(x_1, y_1)$ and $P_2(x_2, y_2)$ in ratio $m : n$ are

$$x = \frac{m x_2 + n x_1}{m + n}, y = \frac{m y_2 + n y_1}{m + n}.$$

$$(P_1 P_2)^2 = (x_1 - x_2)^2 + (y_1 - y_2)^2$$

Equations of straight lines.

$$\left. \begin{aligned} \frac{x - x_1}{x_1 - x_2} &= \frac{y - y_1}{y_1 - y_2} \\ \frac{x}{a} + \frac{y}{b} &= 1 \end{aligned} \right\} \begin{array}{l} \text{Line defined by two points} \\ \text{through which it passes} \end{array}$$

$$\left. \begin{aligned} \frac{x - a}{\cos \theta} &= \frac{y - b}{\sin \theta} = r. \\ y &= m x + b. \\ y &= m(x - a). \\ x \cos a + y \sin a &= p. \end{aligned} \right\} \begin{array}{l} \text{Line defined by one point} \\ \text{through which it passes,} \\ \text{and by its direction.} \end{array}$$

General equation of 1st degree, $Ax + By + C = 0$, represents a straight line.

Any line through (x_1, y_1) is

$$A(x - x_1) + B(y - y_1) = 0.$$

If θ be angle between $Ax + By + C = 0$ and $A'x + B'y + C' = 0$, then

$$\tan \theta = \frac{A'B - AB'}{A A' + B B'}$$

Condition of \perp rity, $AA' + BB' = 0$.

Condition of \parallel ism, $\frac{A}{A'} = \frac{B}{B'}$.

Distance from (a, b) to $Ax + By + C = 0$, in direction whose direction cosines are (l, m) is

$$= \frac{Aa + Bb + C}{Al + Bm}.$$

$$\begin{aligned} & \perp \text{ distance from } (a, b) \text{ on } Ax + By + C = 0. \\ & \quad \frac{Aa + Bb + C}{\sqrt{A^2 + B^2}}. \end{aligned}$$

THE CIRCLE—

Equations in forms:

$$\begin{aligned} x^2 + y^2 &= r^2. \\ (x - a)^2 + (y - b)^2 &= r^2. \\ x^2 + y^2 - 2rx &= 0. \end{aligned}$$

General equation $x^2 + y^2 + 2Ax + 2By + C = 0$,
or $(x + A)^2 + (y + B)^2 = A^2 + B^2 - C$,
represents a circle with centre $(-A, -B)$ and radius

$$\sqrt{A^2 + B^2 - C}.$$

Tangent at (x', y') to $x^2 + y^2 = r^2$, is $xx' + yy' = r^2$.

Normal is $\frac{x}{x'} = \frac{y}{y'}$.

Tangent in form.

$$y = mx \pm \sqrt{1 + m^2}.$$

Pole being (x', y') , polar is $xx' + yy' = r^2$.

If pole move along a line, polar turns about pole of that line.

Square of tangent from

$$\begin{aligned} (x', y') \text{ to } x^2 + y^2 + 2Ax + 2By + C &= 0 \\ \text{is } x'^2 + y'^2 + 2Ax' + 2By' + C. \end{aligned}$$

Radical axis of

$$\begin{aligned} x^2 + y^2 + 2Ax + 2By + C &= 0, \\ x^2 + y^2 + 2A'x + 2B'y + C' &= 0. \end{aligned}$$

Easy exercises on the preceding propositions.

One examination paper.

PHYSICS.

Mechanics: Measurement of velocity; uniformly accelerated rectilinear motion; metre; units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

Hydrostatics: Fluid pressure at a point; pressure on a horizontal plane; pressure on an inclined plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air-pump; water-pump, common and force; siphon.

Electricity: Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltmeters; electroplating; astatic and tangent galvanometers; simple notions of potential; Ohm's law; shunts; measurement of resistance; electric light, arc and incandescent; current induction; induction coil; dynamo and motor; the joule and watt; electric bell; telegraph; telephone; elements of terrestrial magnetism.

One examination paper.

CHEMISTRY.

Reactions, rates of reactions, reversible reactions, chemical equilibrium. The practical study of the following elements with their most characteristic compounds, having regard to Mendelejeff's classification of the elements, and some of the most important economic and industrial applications: hydrogen, sodium, potassium, magnesium, zinc, calcium, strontium, barium, boron, aluminium, carbon, silicon, tin, lead, nitrogen, phosphorus, arsenic, antimony, bismuth, oxygen, sulphur, fluorine, chlorine, bromine, iodine, manganese, iron, copper, nickel. A report must be furnished showing the amount and nature of the laboratory work done by each candidate, and the teacher's opinion of his proficiency.

One examination paper.

BIOLOGY.

1. **ELEMENTS OF ZOOLOGY**: The candidate will be examined practically on his acquaintance with the structure of the various types prescribed below, and must be prepared to sketch the specimens submitted to him.

Vertebrate Types: 1. The fish:—Any one of the common fresh water fishes of Ontario may be employed for the purpose; special attention should be given to the organs of locomotion, circulation, respiration. As several species are easily obtainable this class may be employed for studying the principles of zoological nomenclature.

2. The frog:—Comparison with the fish as to the organs above mentioned—observation of the development of the spawn of one or more Amphibia.

3. The reptile:—A study of the external form of a turtle and a snake, and comparison of both with a lizard.

4. The bird:—Special attention should be given to the plumage, the bill and feet, and to the modifications of the skeletal, muscular and respiratory systems in connection with aerial life.

5. The mammal:—Characters of the chief domesticated and wild mammals of Ontario must be studied, as well as the main facts of internal structure of one of the smaller forms (*e.g.* the rabbit). Comparison of the teeth and feet of the pig, horse, sheep, rabbit, dog, mole, bat.

Invertebrate Types: 1. Study of the crayfish as a type of the arthropods. Comparison of the external form of the crayfish with an insect (*e.g.*, grasshopper, cricket, or cockroach) also with a millipede and a spider.

2. Unsegmented and segmented worms. (Planaria or Pistome and Earthworm or Leech.)

3. Fresh water mussel and snail.

4. A fresh water unicellular animal such as an amoeba or paramecium. The natural habits of the various animals studied.

Elements of zoological classification based on forms studied.

2. ELEMENTS OF BOTANY: The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated.

It will further require an elementary knowledge of the following topics:

Comparison of the various organs of flowering plants:—roots, stems, leaves, hairs and parts of the flower. Reproduction, pollination, fertilization and the nature of fruits and seeds.

Structure of representatives of the chief sub-divisions of cryptogams such as a fern, a lycopod, a horsetail, a liverwort, a lichen, a moss, a mushroom and a chara.

Microscopic structure of plants.

Principles of classification.

Vegetable physiology, especially of nutrition, growth and movement.

Relation to environment.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1909.

A Scholarship cannot be held without attendance on the University Arts classes. To be eligible for free tuition in the remaining sessions of his course the scholar must pass his annual examination to the satisfaction of the Senate. To hold a Scholarship a candidate must be fully matriculated.*

I.—The following Scholarships, of the value specified, are awarded on the July Departmental Honour Matriculation examinations. Candidates for Honour Matriculation Scholarships must take Honour standing in the subjects specified in connection with the Scholarships.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
1. PRINCE OF WALES. \$60. Founded by H. M. King Edward VII	\$100	\$160	Mathematics, Chemistry, and Physics.
2. GOVERNOR-GENERAL. \$75. Given by His Excellency Earl Grey, LL.D.	100	175	Classics.
3. CHANCELLOR. \$100. Founded by Sir Sandford Fleming, K.C.M.G., Chancellor	100	200	Mathematics.
4. MACKERRAS MEMORIAL. \$70. Founded in memory of the late Prof. Mackerras	100	170	Classics.
5. WILLIAMSON No. 1. \$65. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	165	English and History.
6. WILLIAMSON No. 2. \$60. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	160	French and German.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
7. LEITCH MEMORIAL No. 1. \$60. Founded in memory of the late Principal Leitch	\$100	\$160	English, Chemistry, and Physics or Botany.
8. NICHOLLS FOUNDATION No. 1. \$50. Founded by the late Charlotte Nicholls, of Peterboro'	100	150	English, French and German.
9. MAYOR. \$50. Given by the Mayor of Kingston	100	150	Latin, French and German.
10. MOWAT. \$50. Founded by the late John Mowat, Esq., of Kingston	100	150	Mathematics.
11. FORBES McHARDY. \$25. Founded by the late Forbes McHardy, Esq., Toronto	100	125	Mathematics, French and German.
12. McLACHLAN. \$125. Given by R. McLachlan, Esq., Oshawa.	100	225	English, Latin and French.
13. REGISTRAR. \$100. Given by Geo. Y. Chown, Kingston..	100	200	Latin, English, History, Mathematics, and one of Greek, French, German, Science (Chemistry and Physics).

II.—The following Scholarships, of the values specified, are awarded on the July Departmental Junior Matriculation examinations.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
1. NICHOLLS FOUNDATION No. 2. \$35. Founded by the late Charlotte Nicholls, Peterboro'	\$100	\$135	General proficiency.
2. McDOWALL. \$25. Founded in memory of the late Rev. Robert McDowall	100	125	Do.
3. NICHOLLS FOUNDATION No. 3. \$20. Founded by the late Charlotte Nicholls, Peterboro'	100	120	Do.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1909.—(Continued).

III.—The following Scholarships have been endowed under special conditions.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
1. WATKINS. \$60. Founded by the late John Watkins, Esq., Kingston	\$100	\$160	Given to the student of the Kingston Collegiate Institute who stands highest in the Form IV examinations.
2. McLENNAN GLENGARRY FOUNDATION. \$60. a year for four years. Founded by the late R. R. McLennan, Esq., Alexandria	100	340	General proficiency, Jr. Matriculation. Given only to candidates in one of the High Schools of County of Glengarry.
3. MARION STEWART McDONALD. \$75. Founded by John S. McDonald, Esq., Fond du Lac, Wis.		75	General proficiency, Junior Matriculation. Given only to candidates from the County of Glengarry.
4. WILSON. \$25. Given by Uriah Wilson, M.P.	100	125	General proficiency. Given only to candidates from the Counties of Lennox and Addington.
5. KINGSTON, No. 1, 2, 3, 4. Founded by the City of Kingston	100	100	General Proficiency, Junior Matriculation. Given only to candidates from the City of Kingston.
6. BRYAN. \$100. Founded by Principal George W. Bryan, of Calgary, Alta.	100	200	Awarded to candidate making the highest marks on Grade VII examination of Alberta. Open to those only who have resided for at least one year in Alberta.

Notice of intention to compete for Scholarships must be sent to the Registrar before May 22nd, 1909, on a form which will be supplied on application.

*Candidates who wish to present certificates for any part of Matriculation will forward them with the notice.

Candidates for Junior Matriculation Scholarships will not be eligible to compete for Senior Matriculation Scholarships in any subsequent year. Junior Matriculation Scholarships will only be available the next ensuing session after the year in which they were first awarded.

ARTICLE IV.—UNIVERSITY PRIZES, MEDALS AND SCHOLARSHIPS.

SPECIAL SCHOLARSHIPS.

The Rhodes Scholarship in Canada.

Queen's University will, in January, 1912, select a candidate under the Rhodes' bequest. The scholar will begin residence at Oxford in October of the year for which he is elected.

The Scholarship is tenable for three years, and is of the value of £300 per annum.

ELIGIBILITY OF CANDIDATES.

1. Candidates shall be British subjects and unmarried. They must have passed their nineteenth but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.

2. An elected scholar must have reached at least the end of his sophomore or second year's work at some recognized degree-granting University or College of Canada.

3. Candidates may elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They must be prepared to present themselves for examination or election in the Province they select. No candidate may compete in more than one Province, either in the same or in successive years.

4. Only candidates who have passed an equivalent to the Oxford Responsions Examination, or those who are exempted from Responsions by the Colonial Universities' Statute, are eligible for election.

Queen's University having applied for and been admitted to the privileges of the Colonial Universities' Statute, candidates coming from Queen's University who have fulfilled the conditions are accepted as candidates for Rhodes' Scholarships without further examination.

METHOD OF SELECTION.

In accordance with the wish of Mr. Rhodes, the Trustees desire that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainment, (2) his fondness for and success in manly out-door sports, such as cricket, football and the like, (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship, and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his schoolmates." Mr. Rhodes suggested that (2) and (3) should be decided in any School or College by the votes of fellow-students, and (4) by the Head of the School or College.

Where circumstances render it impracticable to carry out the letter of these suggestions, the Trustees hope that every effort will be made to give

effect to their spirit, but desire it to be understood that the final decision must rest with the Committee of Selection.

Rhodes Scholars, 1905: J. M. Macdonnell, M.A.; 1907: Norman S. Macdonnell.

Exhibition of 1851, Science Research Scholarship.

This scholarship, of the annual value of £150 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and (except in very special circumstances) are under 30 years of age.

The nominee must be a British subject, must have been a *bona fide* student of this University for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination, (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study) and must pledge himself not to hold any position of emolument whilst holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for a second year, if the report of the first year's work be satisfactory to the Commissioners. The scholar will in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated, and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The next recommendation will be made by the Senate in April, 1911.

Science Research Scholars recommended by Queen's University:—

Norman R. Carmichael, M.A., 1894.

Thomas L. Walker, M.A., 1896.

Frederick J. Pope, M.A., 1898.

Wm. C. Baker, M.A., 1900.

C. W. Dickson, M.A., 1901.

C. W. Knight, B.Sc., 1904.

F. H. McDougall, M.A., B.Sc., 1905.

Campbell Laidlaw, B.A., M.D., 1907.

PRIZES.

These are prizes for literary articles, essays, etc., as specified under each particular prize, and are open to students of the present or preceding session.

CONDITIONS OF COMPETITION.—1. Competitive papers must be given to the Registrar not later than 21st of March.

2. Each paper is to bear a motto, instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

A.—LEWIS.

Value \$25. Given for the best lecture on Isaiah VII, 10-17.

B.—GOWAN FOUNDATION NO. I.

Value \$25. Given by the Hon. Sir James R. Gowan, K.C.M.G., for the best essay on Municipal Taxation in Canada.

C.—GOWAN FOUNDATION NO. II.

Value \$25. Given by the Hon. Sir James R. Gowan, K.C.M.G., for "The best Collection of Canadian Plants." The collection must be delivered before the 15th December.

D.—GOWAN FOUNDATION NO. III.

Value \$25 in Books. Given by the Hon. Sir James R. Gowan, K.C.M.G., in Honours in Political Science.

E.—LATIN AND GREEK COMPOSITION.

Two prizes, each of the value of \$10 in books, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1909-10; Latin Prose, Mommsen's History of Rome (Eng. trans., latest edition), Vol. IV, p. 150, "The extensive range" to the end of Chap. X. Greek Prose, *Hogarth's Philip and Alexander*, pp. 79-82.

F.—SPECIAL GERMAN PRIZE.

A prize of the value of \$10 in books is offered for the best examination in April in Senior German.

G.—JAMES C. ROGERS PRIZE IN ENGLISH.

A prize of the value of \$5 in books. Awarded by James C. Rogers, B.A., to the student obtaining the highest standing in Senior English.

H.—MARY FRASER M'LENNAN PRIZE IN HEBREW.

A prize of the value of \$12, founded in memory of Mary Fraser McLennan, of Lancaster, by her sons. Awarded to the student obtaining highest standing in Junior Hebrew.

I.—W. F. NICKLE PRIZE FOR 1910.

Value, \$25 in books. Given by W. F. Nickle, M.P.P., for the best essay by a student in Preliminary Honour Political Science on the subject: Does the Canadian banking system provide sufficient safeguards for the interests of the noteholder, the depositor, and the shareholder?

J.—THE EDWARD THOMPSON COMPANY PRIZE.

Value \$125. The Edward Thompson Company offer a prize of 25 vols. of the "English and American Tabulated Cases" series, for the best thesis based on the above work, submitted by a candidate for the LL.B. degree, on the subject, 'The 4th section of the Statute of Frauds, 29 Chas. II, chap. 3.'

SCHOLARSHIPS IN ARTS.

1.—NEW YORK QUEEN'S ALUMNI SCHOLARSHIPS IN BIOLOGY.

Value \$50. Given by the New York Queen's University Society and awarded to the student in Arts or Medicine who obtains the highest number of marks in the honour examinations in physiology and histology.

2.—THE ANN ELIZA STAFFORD SCHOLARSHIP IN ANIMAL BIOLOGY.

Value \$40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate in first-class honours in Animal Biology who is competent to undertake research work in physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

3.—THE M. C. CAMERON SCHOLARSHIP IN GAELIC.

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader and speaker. The examination takes place after the September Matriculation examination. Work prescribed: Any 600 lines of Ossian's Fingal, Blackie's Language and Literature of the Scottish Highlands, Gaelic Grammar. Translation at sight of Gaelic into English and English into Gaelic. This scholarship will not be awarded to any candidate who does not take at least fifty per cent. of the total number of marks in the examination.

4.—THE HIRAM CALVIN SCHOLARSHIP IN LATIN.

Value \$25. Given by Hiram Calvin, M.P., Kingston, to encourage the study of Latin in the University. Awarded on the result of the April examinations in Senior Latin, to the best student who is proceeding to the Honour Course in Latin. Not to be held by any student unless in actual attendance. Not necessarily to be awarded, unless a certain degree of merit is shown.

5.—THE MACLENNAN SCHOLARSHIP IN GREEK.

Value \$25. Given by Hon. Justice Maclennan, LL.D., Ottawa, to encourage the study of Greek in the University. Awarded on the results of the April Examinations in Senior Greek to the best student who is proceeding to the Honour Course in Greek. Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a certain degree of merit is shown.

7.—THE '01 FELLOWSHIP IN ENGLISH.

This Fellowship was established by the Class which graduated in 1901. It is awarded by the Senate to the student who is to act as Assistant Tutor in English during the following session.

MEDALS.

University medals will be awarded to the Candidates who obtain the highest number of marks in the Honour courses leading to the degree of M.A.

Candidates for medals will be required at the final examination to take all the Honour papers in the work of the courses which they select. No medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

Any tutor engaged in teaching the Honour work of a class on which the medal in that class is awarded shall not compete for the medal.

THE MALCOLM MACCORMACK GOLD MEDAL IN GERMAN.

Given by Malcolm MacCormack, B.A., of Guelph, for proficiency in German speech, conversational and oratorical, tenable by male students only, in Final Honour Class.

THE A. W. ALEXANDER GOLD MEDAL IN GERMAN.

Given by Mr. A. W. Alexander, of Guelph, for proficiency in Preliminary Honour German.

PRIZES AND SCHOLARSHIPS IN PRACTICAL SCIENCE.

1.—THE CHANCELLOR'S PRACTICAL SCIENCE SCHOLARSHIP.

Value \$70. Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., Chancellor of the University. Awarded to the Practical Science student passing the best examination at the end of the first year.

2.—MOWAT SCHOLARSHIP.

Value \$50. Given by Ex-Mayor Mowat. Awarded to the Practical Science student who obtains the highest standing in the second year in Mathematics II, Physics II and Sr. Chemistry.

3.—CANADIAN MINING INSTITUTE PRIZES.

The Canadian Mining Institute offers annually a medal and two prizes of a value of \$25 each for papers by Canadian Mining students. See the Calendar of the School of Mining for particulars.

4.—ENGINEERING SOCIETY PRIZES.

The Engineering Society of Queen's University offers two prizes of \$15.00 and \$10.00 for the two best papers on scientific subjects, by members of the society. These papers must be read before the Society, and five papers, at least, must be presented before the prizes will be awarded. These prizes are open for competition to all students of Engineering.

SCHOLARSHIPS IN THEOLOGY.

I.—Matriculation Scholarships.

1.—DAVID STRATHERN DOW.

Founded in 1886 by David Strathern Dow, Esq., Whitby, Ont. Value \$75.

2.—DOMINION.

Founded in 1870 by the late Walter Lawson, Scotland. Value \$70.

3.—BUCHAN NO. 1.

Founded in 1875 by the late Rev. Alexander Buchan, Stirling, Ont. Value \$65.

4.—BUCHAN NO. 2.

Founded by the late Rev. A. Buchan. Value \$55.

5.—BUCHAN NO. 3.

Founded by the late Rev. A. Buchan. Value \$45.

6.—M'INTYRE.

Founded in 1876 by Mrs. Margaret W. McIntyre, Perth, Ont. Value \$20. A candidate for these scholarships must, before writing, produce his Presbyterian certificate.

II.—Scholarships Awarded at Close of Session.

1.—SARAH M'CLELLAND WADDELL MEMORIAL.

Founded in 1899, by Hugh Waddell, Esq., South Monaghan, Ont., in memory of his mother, Sarah McClelland. Value \$120. Awarded upon the

Sessional Examination at the close of the first year in divinity, Old and New Testament Exegesis, Church History and Elocution.

2.—THE CHANCELLOR'S.

Founded by Sir Sandford Fleming, K.C.M.G. Value \$70. Awarded to the student of the second year who takes the highest standing in the sessional Examinations.

3.—SPENCE.

Founded in 1879, by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value \$60. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, and Apologetics, or Hebrew. Tenable during second and third year in Theology.

4.—LEITCH MEMORIAL NO. 2.

Founded in 1867, in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value \$80. Awarded upon a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his Theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in 1911. Subjects of examination: The Epistles to the Romans and Hebrews in Greek, Psalms I-XXV in Hebrew, Butler's Analogy, and the Divinity Lectures of the session.

5.—ANDERSON NO. 1.

Founded by the late Robert Anderson, Esq., Montreal. Value \$40. Awarded in the first year Divinity.

6.—ANDERSON NO. 2.

Founded by the late Robert Anderson, Esq. Value \$35. Awarded in second year Divinity.

7.—THE TAWSE.

Founded by Miss Tawse, King, Ont. Value \$40. Awarded in third year Divinity.

8.—TORONTO.

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value \$60. Awarded in second year Hebrew.

9.—ST. ANDREW'S CHURCH, TORONTO.

Given by the Session of St. Andrew's Church, Toronto. Value \$45. Awarded in Old Testament Exegesis.

10.—RANKINE NO. 1.

Founded in 1881, by the late Alexander Rankine, Esq., Leamington, England. Value \$45. Awarded in Apologetics.

11.—RANKINE NO. 2.

Founded by the late Alexander Rankine, Esq., Leamington, England. Value \$45. Awarded in New Testament Exegesis.

12.—GLASS MEMORIAL.

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value \$30. Awarded in Church History.

13.—MACKIE.

Given by the Rev. John Mackie, M.A., D.D., St. Andrew's Church, Kingston for the best essay on The Theology of the Epistles to the Hebrews. Essays to be handed in not later than Feb. 15th, 1909. For rules of competition see under prizes. Value \$25 in books. May be taken by a student holding another scholarship.

14.—JAMES ANDERSON BURSARY.

Founded by the late James Anderson, Acton, Ont. Value \$25. Awarded by the Senate to a student who can preach in Gaelic.

15.—WILLIAM MORRIS BURSARY.

Founded by the late Hon. Alexander Morris, in memory of his father. Value \$50. Awarded by the Senate to a Divinity student taking a post-graduate course in the University.

PRIZES AND SCHOLARSHIPS IN MEDICINE.

Besides University prizes, scholarships and honours open to Medical students, the following are offered, viz.:

I. Two Faculty Prizes.

Awarded in Practical Anatomy for the best dissection of any extremity.

II. At the End of the Second Session.

1. A prize of \$25.00 will be awarded to the student making the highest number of marks on the year's examinations in Anatomy, Physiology, Histology and Chemistry, Theoretical and Practical.

2. The New York Alumni Association Scholarship of \$50.00 will be awarded to the student making the highest number of marks in Honour Physiology and Histology papers of the course. Open also to Arts students in Honour Animal Biology.

3. A standard work on Medicine will be awarded to the student making the highest percentage of marks on the year's examination in Materia Medica, Therapeutics and Pharmacy.

III. At the End of the Third Session.

1. The Dean Fowler Scholarship, value \$50, will be awarded to the student making the highest percentage of marks on the examinations of the year and will be enjoyed by the successful candidate during the fourth session.

2. A standard work on Pathology will be awarded for the best written and practical examination on Pathology.

IV. At the End of the Fourth Session.

1. The Chancellor's Scholarship of \$70.00 will be awarded to the student who has made the highest number of marks on all examinations for the four years' course.

This Scholarship is open to students who take the examinations of the Ontario Medical Council, and is tenable only on condition that during the following year the winner pursues the studies of the fifth session at Queen's as prescribed in the Calendar, or studies in Europe for a like period.

2. A University Medal will be awarded to the student making the highest number of marks in the examinations in Practice and Medicine, Clinical Medicine, Pathology, Bacteriology, Sanitary Science and Jurisprudence.

3. A University Medal will be awarded to the student making the highest number of marks in Surgery, Clinical Surgery, Obstetrics and Gynæcology, Medical and Surgical Anatomy, Eye, Ear, Throat and Nose.

4-6. Three House Surgeoncies at the Kingston General Hospital, of twelve months each, will be awarded to three students of the fourth year. Candidates for these positions must have passed all previous examinations. These appointments must be approved by the Board of Governors of the Kingston General Hospital.

A House Surgeoncy and the Chancellor's Scholarship cannot be held by the same student, but a student winning both may elect which he will hold.

7. A prize of \$25.00 given by Dr. W. C. Barber, will be awarded to the fourth year student passing the best examination on the subject of Mental Diseases.

8-9. Two Clinical Assistants are appointed to the staff of the Rockwood Hospital for the Insane to work during the summer. Applications must be made to Dr. E. Ryan, Supt., by whom the appointments are determined, regard being had to the special qualifications necessary for such work.

ARTICLE V.—TEACHER'S CERTIFICATE.

1. Teachers' Certificates which are of sufficiently recent date will be accepted *pro tanto*.

2. Ontario Junior Leaving or Entrance to Normal School certificates will be accepted as the equivalent of Junior Matriculation so far as the subjects correspond. See cl. 3, page 26. Equivalent

certificates from the other provinces will be accepted in the same way.

3. Any person who is permitted to attend on presentation of an Ontario Junior Leaving or Entrance to Normal School certificate or equivalent certificate from any of the other Provinces which does not include Latin, must take Latin for one session and matriculate in this subject before entering the Junior class, and if he has not passed the Matriculation examination in Greek, French or German he must in his first or second year come up for examination in either the matriculation or the Junior class work in one of these three subjects.

4. Senior Leaving Certificates of Ontario will be accepted for Senior Matriculation so far as they cover the subjects of matriculation.

5. Any person presenting a Senior Leaving or Entrance to Faculty of Education certificate of Ontario, or equivalent certificate, will be permitted to enter upon a University course.

*6. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers of Ontario, Entrance to Faculty of Education, or equivalents in other Provinces, in Latin, Greek, French, German, Mathematics, English, History, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course within three years.

7. Certificates from the different provinces will be accepted for the Junior Leaving and Senior Leaving certificates of Ontario as follows :—

Ontario.....	Jr. Leaving.....	{ Entrance to Fac. of Ed. Sr. Leaving.
Prince Edward Island.....	Second Class.....	First Class.
Nova Scotia.....	Grade XI.....	Grade XII.
New Brunswick.....	Second Class.....	First Class.
Quebec.....	{ Academy Grade III. University School AA.	
Manitoba.....	Second Class.....	First Class.

Saskatchewan.....	Grade VII.....	Grade VIII.
Alberta.....	Grade VII.....	Grade VIII.
British Columbia.....	Intermediate.....	Senior Academic.

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

ARTICLE VI.—EXTRA-MURAL STUDENTS.

I.—NATURE OF COURSES.

A method of taking the work without attendance has been established with a view to providing for those who wish to continue their studies and yet are for any reason unable to attend the University.

The work is as nearly as possible identical with that taken up by intra-mural students and all examinations must be written on in the regular way.

Extra-mural students must write the essays and exercises prescribed and send them at the dates specified. For information regarding essays and exercises, see the sections concerning extra-mural students in "Subjects of Study for B.A. and M.A." Latin, ~~p. 76;~~ Greek, ~~p. 78,~~ etc.

Students should address their work and all inquiries to "The Tutor in (whatever the subject may be), Queen's University, Kingston, Ont." The date of each essay or exercise coming in and of each criticism or fresh piece of work going out will be tabulated at the college office in order that all work may be traced.

II.—MATRICULATION.

Candidates for a degree must, before being registered, pass the Matriculation examination or its equivalent.

Students who have completed three years' work, covering three-fourths of the classes required for a degree, are entitled to a University certificate of standing.

III.—PARTIAL ATTENDANCE.

All extra-mural students proceeding to a degree, registering for the first time, after October 21, 1909, are required to attend at least one session.

Extra-mural students taking specialist courses for teachers (see page 64) are required to attend not less than two full sessions.

Students are strongly advised to attend for the latter part of the course if possible. If this is not feasible they should not attempt more than a pass course.

Oral examinations in final Honour Moderns and practical examinations in Science must be taken at the University.

IV.—REGISTRATION.

Extra-mural students should register before October 1st in order that they may receive tutorial assistance for the full session. Students previously registered, wishing to take up work for the winter session, must be registered by October 21st. Students registering for the first time after December 15th will not be allowed to write on the April examinations.

The summer term for extra-mural students begins on May 1st and continues without interruption until the examinations in September.

Students who wish to write on an examination in September and who have not registered in the preceding October must register by May 21st. They will receive the regular tutorial assistance during the summer.

Students who have registered in October and require further tutorial assistance during the summer must pay the registration and tutorial fees a second time before May 21st. The registration fee of \$10 and complete tutorial fees for the session should be sent to the Registrar together with the registration form supplied on request.

On receipt of the proper fees a registration card and the first instalment of work to be done will be forwarded.

Pro Tanto Fee.—Students who have been granted any allowance on work already taken elsewhere must pay a *pro tanto* fee of \$10 with their first registration fee to have this allowance entered.

V.—TUTORIAL FEES.

The tutorial fee for each class is \$5.

For each group or part of a group of Honour Mathematics the fee is \$5.

In no case whatever will refunds be made. In case of sickness application to have fees carried over (accompanied by a doctor's certificate) will be considered if made within one month of registration.

Attention is called to the fact that if assistance is required in any subject during the session and also during the summer months the fees must be paid twice.

Extra-mural students who enter not later than the close of the Christmas vacation may have extra-mural fees applied on intra-mural charges and need then pay only the balance.

VI.—EXAMINATIONS.

The University Examination fee of \$10 for Pass classes or \$12 for Honour (or Pass and Honour) classes must be paid to the Registrar in advance by all candidates wishing to take examinations.

Students applying to write at outside centres must send also \$1 for each half-day examination and \$1 for each oral examination, to remunerate presiding examiner.

List of centres where extra-mural examinations are held may be had on application to the Registrar. If for special reasons a candidate is unable to write at one of these, a new centre may be established on payment of a fee of \$10.00. A centre, if not used for a year, will lapse.

Students must make application to the Registrar, at least three weeks before the beginning of the University examinations in April and September, for the papers on the particular subjects upon which they propose to write. Students wishing to have new examination centres established, or old centres re-established, must make application, accompanied by the fee, by March 1st for April examinations and by August 1st for September examinations.

VII.—REMITTANCES.

Cheques or Drafts will be received at par on any place where The Merchants' Bank of Canada has an agency, otherwise add 13 cents per \$100 to cover bank charges, or remit by Post-office or Express order.

VIII.—LIBRARY DEPOSITS.

Extra-mural students may obtain books from the Library on payment of a deposit of \$2.00 for one book, \$4.00 for two, and \$5.00 for three. The deposit may be withdrawn at any time. There is no fee, but the postage is paid by the borrower, being deducted from the deposit before returning. For further particulars and regulations apply to the Librarian. Special arrangements are made for supplying the necessary books to extra mural students in the Ph.D., B. Paed. and D. Paed courses.

All communications concerning books, and all deposits must be made directly to the Librarian.

ARTICLE VII.—REGULATIONS REGARDING CLASSES.

1. The College year extends from October 1st to September 30th.

2. Junior matriculants must in the first year of their course choose their classes from the following list:

Junior Latin, Junior Greek, Junior German, Junior French, Junior English, Junior Mathematics, Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy.

3. No student is allowed to take a Senior class before passing the Junior in the same subject, nor to take a Junior and Senior class in the same subject in one college year.

4. No student is allowed to attend or pass more than five classes in any college year. A sixth class may be added if it be a subject in which he has already failed.

5. Students should take the Pass classes in English, Latin, Greek, French, German and Mathematics in the first two years of their course.

6. Students who desire to take an Honour course in Arts are advised to spend four years thereon from Senior Matriculation or five years from Junior Matriculation.

7. Pass and Honour examinations are held annually in April and Pass examinations in September also.

8. In determining a student's standing at a sessional examination the Professors in the different departments are entitled to take into account the entire class record.

PERCENTAGES REQUIRED :

To take Pass Standing, 40 per cent.

To take Third Class Honours, 50 per cent.

To take Second Class Honours, 66 per cent.

To take First Class Honours, 75 per cent.

ARTICLE VIII.—PASS COURSES LEADING TO DEGREE OF B.A.

1. The course after Matriculation extends over four sessions, but students who are allowed four classes (see clause 6, article V) may complete their course in three years.

2. The degree of B.A. will be conferred on candidates who take :

(a) Pass standing in the Pass classes and second or third class Honours in the Honour classes of any of the Honour courses, or

(b) Pass standing in the Pass classes and at least third class Honours in the Honour classes (if any) in one of the following Pass courses :

COURSE I.

A.—1. Junior and Senior Latin.

- | | |
|--------------------------------|------------|
| 2. Junior and Senior Greek (a) | } Any one. |
| 3. Junior and Senior French. | |
| 4. Junior and Senior German. | |

B.—1. Junior and Senior English.

2. Mental and Moral Philosophy.
3. English History and Economics.
4. Junior Mathematics.

C.—Any two of the Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy, Geology, Junior Hebrew.

D.—Any two of the following :

1. Any two not taken under B, of Modern History, English History, Economics, Politics.
2. Junior and Senior Greek.*
3. Junior and Senior French.*
4. Junior and Senior German.*
5. Senior Hebrew.
6. Any two of Senior Mathematics, Senior Physics, Senior Chemistry, and the classes not taken in C.
7. Any other two of those in (6).
8. Preliminary Honours in either Latin, Greek, French, German, History, Philosophy, Political Science, Botany, Animal Biology, Chemistry, Mineralogy or Geology.

9. Any other one of those in (8).
10. Intermediate Honours in English.
11. Honours in Mathematics, Group 1.
12. Preliminary or Experimental Honour Physics.
13. Final Honours (at least second class) in any class in (8), (10), (11).

*Only for those who have not taken them.

(a) Students taking Greek will be required to take only one of the classes in C.

COURSE II.

- A.—1. Junior Latin.
2. Junior Greek
3. Junior French.
4. Junior German.
- } Any two.

- B.—1. Junior and Senior English.
2. Mental or Moral Philosophy.
3. Junior and Senior Mathematics.
4. Junior Physics.
5. Junior Chemistry.

C.—Any two of: Botany, Animal Biology, Mineralogy, Geology, Senior Chemistry, Senior Physics.

D.—Any four of the following:—

1. Senior Latin.
2. Senior Greek .
3. Senior French.
4. Senior German.
5. Junior Hebrew.
6. English and Modern History.
7. Economics and Politics.
8. Moral Philosophy.
9. Any other two of those in C.
10. Any other two of those in C.
11. Preliminary Honours in either Political Science, Botany, Animal Biology, Latin, Greek, French, German, History, Philosophy, Chemistry, Mineralogy, or Geology.
12. Any other one in (11).
13. Any other one in (11).
14. Any other one in (11).
15. Intermediate Honours in English.
16. Honours in Mathematics, Group 1.
17. Preliminary, or Experimental Honour Physics.
18. Final Honours (at least second class) in any class in (11), (15), (16), or (17).

COURSE III.

While the following course for the degree of B.A. is open to all undergraduates in Arts, it is specially recommended for those who intend to qualify as general assistant in a High School or as Principal of a Continuation Class School.

Classes.

Junior and Senior English.	
Junior and Senior Latin.	
Junior and Senior Mathematics.	
Junior French.	} Any two.
Senior French.	
Junior German.	
Senior German.	
Junior Physics.	
Junior Chemistry.	
Botany and Animal Biology.	
Geology.	
Mental and Moral Philosophy.	
English and Modern History.	

COURSE IV.

Course for B.A. leading to the Degrees of B.A. and M.B. in six years.

Students taking this course are required to register the first two years in Arts alone and pay the class and registration fees in Arts, to register the second two years in both Arts and Medicine, to pay both registration fees and the Medical class fees and to register the last two years in Medicine only, paying registration and class fees. Arts classes are subject to the regulations in the Arts calendar and Medicine classes to the regulations in the Medical Calendar.

Students will note that the combined B.A., M.B. course requires attendance for four sessions in order to comply with the regulations of the Ontario Medical Council. For the degree of M.D. a fifth session in Medicine is required for which three options are permitted.

Junior Latin.	} Any two.
Junior Greek	
Junior French.	
Junior German.	
Junior and Senior English.	
Senior French or Senior German.	
Mental and Moral Philosophy.	
Junior Mathematics.	

Junior Physics and Junior Chemistry.
 Animal Biology and Medical Botany.
 Junior and Senior Materia Medica.
 Junior and Senior Anatomy.
 Senior Physiology and Histology.
 Senior Chemistry.
 Preliminary Honour Chemistry.
 Preliminary Honour Animal Biology.

COURSE. V.

Course for B.A., leading to the Degrees of B.A. and B.Sc. in six years.

Students taking this course are required to register the first two years in Arts alone and pay the class and registration fees in Arts, to register the second two years in both Arts and Mining, to pay both registration fees and the Mining class fees and to register the last two years in Mining only, paying registration and class fees. Arts classes are subject to the regulations in the Arts calendar and Mining classes to the regulations in the Mining Calendar.

Junior Latin	}	Any two.
Junior Greek.		
Junior French.		
Junior German.		
Senior English.	}	Any one.
Mental Philosophy.		
Senior Latin.		
Senior Greek.		
Senior French.		
Senior German.		
Economics	}	Any one.
Modern History.		
Politics.	}	Any one.
Moral Philosophy.		
Preliminary Honour Latin.		
Preliminary Honour French.		
Preliminary Honour German.		
Intermediate Honour English.		

First and second year of any one of the Engineering Courses.

INSPECTOR'S GENERAL PROFICIENCY COURSE.—B.A.

In accordance with the amendments to the regulations for Public School Inspectors' certificates of the Department of Education of Ontario.

I.

Junior and Senior Latin.
Junior and Senior English.
Junior and Senior Mathematics.
English and Modern History.
Junior and Senior Chemistry.
Junior and Senior Physics.
Pass Botany and Animal Biology.

II.

Junior and Senior German,	} Any one.
Junior and Senior French,	
Junior and Senior Greek.	

III.

Intermediate Honour English.

IV.

Junior and Senior German.*	} Any one.
Junior and Senior French.*	
Junior and Senior Greek.*	
Preliminary Honour Latin.	
Preliminary Honour German.	
Preliminary Honour French.	
Preliminary Honour Greek.	
Group I, Honour Mathematics.	
Preliminary Honour Botany and Animal Biology.	
Experimental Honour Physics.	}
Preliminary Honour Chemistry.	

*Only for those who have not taken them.

For students not taking Greek, a short course in Greek History will be prescribed. Roman History is provided in the course in Latin.

STANDARD.

50% required in at least half of the following:—English and Modern History (to count as one), Pass Botany and Animal Biology (to count as one), and the Senior Classes in I and II.

67% in each of those in III and IV.

ARTICLE IX.—HONOUR COURSES LEADING TO THE DEGREE OF M.A.

1. *Students preparing for the position of High School Master are recommended to take one of the courses that qualify for Specialists' Certificates under Departmental Regulations.*

2. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes and first class Honours in the Honour classes, in any one of the following courses.

3. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following courses:

COURSE A.—LITERATURE AND PHILOSOPHY.

Pass Classes.

Junior and Senior Latin.	
Junior and Senior Greek. (a)	} Any one.
Junior and Senior French.	
Junior and Senior German	
Junior English	} Three.
Senior English	
Mental or Moral Philosophy.	
Junior Mathematics.	} One.
Animal Biology.	
Botany.	
Junior and Senior Greek*	} Any two.
Junior and Senior French*	
Junior and Senior German.*	
Moral Philosophy.	
Economics and Politics.	
English and Modern History.	

Honour Classes.

Preliminary and Final Honour Latin.	} Any two.
Preliminary and Final Honour Greek.	
Preliminary and Final Honour French.	
Preliminary and Final Honour German.	
Preliminary, Intermediate and final Honour English.	
Preliminary and Final Honour History.	
Preliminary and Final Honour Political Science.	
Preliminary and Final Honour Mental Philosophy.	
Preliminary and Final Honour Moral Philosophy.	

(a) Students taking Greek will not be required to take the class in C.

*Only for those who have not taken them.

COURSE B.—MATHEMATICS AND PHYSICS.

Pass Classes.

Junior English	}	Seven.
Senior English.		
Junior Mathematics.		
Senior Mathematics.		
Junior Physics.		
Senior Physics.		
Mental or Moral Philosophy.		

Modern History.	}	Any one.
Economics.		
Mental and Moral Philosophy.		
Junior Chemistry.		

Junior Latin.	}	Any two.
Senior Latin.		
Junior Greek.		
Senior Greek.		
Junior French.		
Senior French.		
Junior German.		
Senior German.		

One of the following Honour Groups :

1. Mathematics—Comprising Honour Mathematics, Preliminary Honour Physics and Practical Astronomy.
2. Physics—Comprising Preliminary and Final Honour Physics, subjects 1, 2, 3, 4, 5, 6, 7, 8 of Honour Mathematics, and Descriptive Astronomy.

COURSE C.—SCIENCE.

Pass Classes.

Junior English.	}	Nine.
Senior English.		
Junior Mathematics.		
Senior Mathematics.		
Mental Philosophy.		
Junior Physics.		
Senior Physics.		
Junior Chemistry.		
Senior Chemistry.		

Junior Latin.	}	Any two.
Senior Latin.		
Junior Greek.		
Senior Greek.		
Junior French.		
Senior French.		
Junior German.		
Senior German.		
Moral Philosophy.		

One of the following Honour Groups:

1. Preliminary and Final Honour Chemistry and Honour Experimental Physics.
2. Preliminary and Final Honour Chemistry, with either Preliminary and Final Honour Botany or Preliminary and Final Honour Animal Biology.
3. Preliminary and Final Honour Chemistry, Preliminary and Final Honour Geology, Preliminary and Final Honour Mineralogy.—Any two.

Specialists' Courses.

4. By agreement with the Education Department of Ontario, candidates taking an M.A. degree or B.A. with second class honours (sixty-six per cent.) in any of the following courses and attending not less than two full sessions will receive the non-professional qualification of Specialist.

5. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes and first class Honours in the Honour classes in any one of the following courses.

6. The degree of B.A. will be conferred on students who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following:

COURSE I.—CLASSICS.

Pass Classes.

Junior and Senior Latin.	}	Any one.
Junior and Senior Greek.		
Junior and Senior English.		
Mental or Moral Philosophy.		
Junior Mathematics.		
English History.		
Junior Physics.		
Junior Chemistry.		
Pass Animal Biology.		

Honour Classes.

Honour Latin, Preliminary and Final.
Honour Greek, Preliminary and Final.
Preliminary Honour Latin and Greek include the Roman and Grecian History.

COURSE II.—ENGLISH AND HISTORY (CLASSICS OPTION.)

Pass Classes.

Junior and Senior Latin.
Junior and Senior Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior Mathematics.
English and Modern History.
Junior Physics.
Junior Chemistry.
Pass Animal Biology.

} Any one.

Honour Classes.

Honour English, Preliminary, Intermediate and Final.
Honour History, Preliminary.
Honour Greek, Preliminary.
Honour Latin, Preliminary.

COURSE III.—ENGLISH AND HISTORY (MODERNS OPTION.)

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
Modern and English History.
Mental or Moral Philosophy.
Junior Physics.
Junior Chemistry.
Pass Animal Biology.

} Any one.

Honour Classes.

English, Preliminary, Intermediate and Final Honours.
History, Preliminary Honours.
French, Preliminary Honours.
German, Preliminary Honours.

COURSE IV.—FRENCH AND GERMAN.

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
English and Modern History.

Junior Physics.	} Any one.
Junior Chemistry.	
Pass Animal Biology.	

Honour Classes.

English, Intermediate Honours.
French, Preliminary and Final Honours.
German, Preliminary and Final Honours.

COURSE V.—MODERNS, (ENGLISH, FRENCH AND GERMAN), AND HISTORY.

Pass Classes.

Junior and Senior Latin.
Junior and Senior German.
Junior and Senior French.
Junior and Senior English.
Junior Mathematics.
Mental or Moral Philosophy.
English and Modern History (Honour standing required).

Junior Physics.	} Any one.
Junior Chemistry.	
Pass Animal Biology.	

Honour Classes.

Honour English, Preliminary, Intermediate and Final A.
Honour German, Preliminary and Intermediate.
Honour French, Preliminary and Intermediate.

COURSE VI.—MATHEMATICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Practical Astronomy.
Honour Mathematics.

COURSE VII.—MATHEMATICS AND PHYSICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Descriptive Astronomy.
Final Honour Physics.
Honour Mathematics, No. 1, 2, 3, 4, 5, 6, 7, 8.

COURSE VIII.—SCIENCE.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Junior and Senior Mathematics.
Junior and Senior Physics.
Junior and Senior Chemistry.
Pass Botany.
Pass Animal Biology.
Pass Mineralogy.
Pass Geology.

Honour Classes.

Preliminary Honour Chemistry.
Preliminary Honour Botany.
Preliminary Honour Animal Biology.

Together with any one of the following groups:

- (a) Final Honour Botany and Final Honour Animal Biology.
- (b) Experimental Honour Physics and Final Honour Chemistry.
- (c) Final Honour Chemistry and Preliminary and Final Honour Mineralogy.
- (d) Preliminary Honour Mineralogy and Preliminary and Final Honour Geology.

ARTICLE X.

SUBJECTS OF STUDY FOR B.A. AND M.A. DEGREES. LATIN.

PROFESSOR—William B. Anderson, M.A. (Aberd., Cantab.)

ASSOCIATE PROFESSOR—George W. Mitchell, M.A.

FELLOW—T. S. Duncan, M.A.

TUTORS—C. R. Graham, B.A., H. W. Macdonnell.

PREPARATORY CLASS.

This class will read the texts prescribed for Junior Matriculation, 1909. For grammar and composition Mitchell's *Introduction to Latin Prose* will be used.

JUNIOR CLASS.

Translation from the books specified below, with questions on grammar and subject matter; for grammatical study Bennett's *Latin Grammar* or Postgate's *New Latin Primer* is recommended.

Translation at Sight from Jerram's *Anglice Reddenda*, First Series, (Clarendon Press).

Latin Prose Composition based on the books read and on Mitchell's *Introduction to Latin Prose*.

Roman History, from 289 to 78 B.C. (Shuckburgh's *History of Rome for Beginners* is recommended).

Roman Antiquities (Wilkins' Primer).

Livy, Book IX (Anderson: Pitt Press).

Vergil, *Aeneid II* (Page).

Ovid, *Metamorphoses* (Selections), ed. by Vince (Blackwood).

SENIOR CLASS.

Translation from the books specified below, with questions on grammar and subject matter; for grammatical study Bennett's *Latin Grammar* or Postgate's *New Latin Primer* is recommended. Translation at sight from Jerram's *Anglice Reddenda* (Second Series), and Prose Composition based on the books read and on North and Hillard's *Latin Prose Composition*.

Roman History from 509 to 23 B.C. (Shuckburgh's smaller History is recommended).

Latin Literature, the Ciceronian and Augustan periods (Mackail).

Cicero, *De Officiis III*, cc. 1-22 (§§ 1-88): ed. by Holden (Pitt Press).

Sallust, *Catiline*, ed. Cook (Macmillan).

Vergil, *Georgics*, Bk. IV, ed. Sargeant (Blackwood).

Horace, Selections from the *Odes*, Bks. II and III, in Wickham's *Selected Odes of Horace* (Clarendon Press).

HONOURS.

Candidates for Preliminary and Final Honours should note that much importance is attached to Composition and Translation at Sight. The text-book

of Composition used in the Preliminary Section is Allen's *Second Latin Exercise Book* (Clarendon Press). The course in the History and Literature of Rome, which is compulsory for all Preliminary Honours students, extends to the death of Marcus Aurelius. Lectures are given on this and on such subjects as Syntax, the History of the Language, Textual Criticism, and Roman Philosophy. The Histories of Rome by Wells, How and Leigh, and Pelham, Bury's *Roman Empire*, Mackail's *Latin Literature* and Tyrrell's *Latin Poetry* will be found useful. Mommsen's *History of Rome*, Greenidge's *Roman Public Life*, Sellar's three books on Latin Poetry, Glover's *Vergil*, and Boissier's *Country of Horace and Virgil* may be strongly recommended for additional reading.

LATIN WORKS PRESCRIBED.

(Stress is laid on the literary qualities of the books, on important textual questions, and on points of interpretation, history or archæology arising from the subject matter.)

PRELIMINARY SECTION.

Plautus, *Captivi*, ed. Lindsay (Clar. Press), or Hallidie (Macmillan).

Catullus, *Select Poems*, ed. Simpson (Macmillan).

Cicero, *Pro Sulla*, ed. Reid (Pitt Press).

Livý, Bk. IX (Anderson).

Vergil, *Georgics*, Bk. I; *Aeneid*, III-VI, XII. Students should provide themselves with complete editions (Page's or Sidgwick's) of the *Eclogues*, *Georgics* and *Aeneid*.

Horace, Wickham's *Selected Odes* (Clarendon Press).

Seneca, *Essays*, etc., Ball's edition (Macmillan), pp. 1-72.

Juvenal, *Satires* I, III, X (Duff or Wilson).

Pliny, *Letters*, ed. Merrill (Macmillan), Nos. 1-14, 24-35, 41-46, 50-65, 104, 105.

Final.

(To be taken at least one year later than the Preliminary Section.)

Latin Inscriptions, ed. Lindsay (Allyn & Bacon).

Fragments of Latin Poetry, ed. Merry (Clar. Press).

Plautus, *Trinummus*, ed. Gray (Pitt Press), *Captivi*.

Catullus, as above.

Cicero, *De Oratore*, Book I, ed. Wilkins (Clar. Press).

Livy, Book IX.

Vergil, *Georgics*.

Horace, *Epistles*, Book I, ed. Wilkins (Macmillan).

Seneca, as above.

Juvenal, *Satires* I, III, VIII, X, XIII.

Pliny, as above.

GENERAL NOTICE TO LATIN STUDENTS:

Members of the Latin classes should provide themselves with a Classical Dictionary (Smith's *Smaller Classical Dictionary*, or Harper's or Seyffert's Classical Dictionary), and also with a Classical Atlas (Murray's is recommended) or at least with a map of ancient Italy (in Murray's series of *Handy Classical Maps*). In *Gow's Companion to School Classics* (Macmillan) will be found an excellent summary of many things which the student of Latin ought to know.

EXTRA-MURAL STUDENTS.

Extra-mural courses, Junior, Senior, and Honours, will be conducted during the winter session. There will also be Junior and Senior courses in the summer session, under the direct supervision of one of the professors, in which all the work in Composition necessary for the Supplemental Examinations in September will be covered.

Instructions and advice will be sent to all students as soon as they register.

N.B.—It is absolutely necessary that all the prescribed exercises be sent in regularly.

GREEK.

PROFESSOR—T. Callander, M.A. (Aberd. Oxon.)

ASSOCIATE PROFESSOR—G. W. Mitchell, M.A.

TUTOR—C. J. BURNS, B.A.

JUNIOR CLASS.

Greek Grammar (Goodwin).

Translation from authors not specified.

Goodwin's *Greek Reader*.

Homer, *Odyssey*, XI (Merry).

North & Hillard, *Greek Prose Composition*.

SENIOR CLASS.

Thucydides II (Macmillan).

Homer *Iliad* I, III, *Odyssey* V (Merry).

The Epistle to the Galatians.

Greek Grammar and Composition. Text-book used is 'North and Hillard.'

Translation from authors not specified.

For general reading:

Jebb, *Primer of Greek Literature and Introduction to Homer*.

Maisch, *Greek Antiquities* (Temple Primers).

Bury, *School History of Greece*.

N.B.—Every member of the Senior class should make himself familiar with the outlines of Greek History at the beginning of his course. Lectures on this subject will be given during the session.

HONOURS.

Candidates for Preliminary and Final Honours in Greek should note that special stress is laid on Composition and Unseen Translation. Passages will also be set for translation from the books specified below. The Greek History required from candidates for Specialist Certificates is included in the Preliminary Honour examinations and must also be taken.

Books recommended:

- Murray, *Greek Literature*.
- Goodwin, *Greek Grammar*.
- Holm, *History of Greece*.
- Bury, *History of Greece*.
- Hogarth, *Philip and Alexander*.
- Jebb, *Influence of Classical Greek Poetry*.
- Butcher, *Some Aspects of the Greek Genius; Harvard Lectures on Greek Subjects*.
- Lang, *Homer and His Age*.
- Tucker, *Life in Ancient Athens*.
- Tsountas and Manatt, *Mycenean Age*.
- Greenidge, *Handbook of Greek Constitutional History*.
- Burrows, *Discoveries in Crete*.
- Gilbert, *Greek Constitutional Antiquities*.

Instead of the editions mentioned below students may find it convenient to use the Teubner series.

Preliminary.

(The examination in this class must be taken at least one year before the final examination.)

- Thucydides II (Marchant, Macmillan).
- Plutarch, *Pericles*.
- Homer, *Iliad I-IV, Odyssey V-XII* (Merry).
- Euripides, *Bacchae* (Tyrrell, Macmillan).
- Sophocles, *Oedipus Tyrannus* (Jebb).
- Aristophanes, *Knights* (Merry).
- Greek Grammar and Composition. Sidgwick's "Greek Prose Composition" is prescribed.

Final.

- Herodotus I, II.
- Thucydides I, II.
- Demosthenes, *De Corona* (Goodwin).
- Plato, *Republic V, VI, VII* (Adam).
- Aristotle, *Ethics I, II*.
- Plutarch, *Themistocles, Pericles*.
- Homer, *Odyssey I-XII, Iliad I-VI*.
- Aeschylus, *Agamemnon* (Sidgwick).
- Prometheus* (Sikes and Willson).

Sophocles, *Oedipus Coloneus*, *Antigone* (Jebb).
Euripides, *Bacchae* (Tyrrell), *Medea* (Verrall).
Aristophanes, *Knights*, *Frogs* (Merry).
Pindar, *Olympians* (Gildersleeve).
Theocritus, *Selections*.

Those who wish to combine Honour Greek with Honours in Philosophy may substitute for the study of *Hegel* either the *Republic of Plato* or *The Nicomachean Ethics of Aristotle*. In that case certain texts in the above list for Final Honours will be cancelled, namely *Demosthenes*, *Plutarch* and *Theocritus*.

EXTRA-MURAL STUDENTS.

The work is the same as that prescribed for intra-mural students. To each student registered in Junior or Senior Greek a paper of general instructions will be sent, along with a list of exercises in Unseen Translation and Prose Composition. These exercises must be done regularly and with the greatest possible care. Juniors and Seniors should procure a text-book of Greek Prose Composition by *North and Hillard* (Messrs. Rivington), without delay. Extra-mural students in Honours will receive direction individually.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR—J. Macgillivray, Ph.D. (Leipzig).
ASSOCIATE PROFESSOR—E. W. Patchett, B.A. (Cantab.)
TUTORS—Ethel Code, M.A.; A. Wilson, M.A.

PREPARATORY CLASS.

As German is not taught in many schools in the Province, a preparatory class is conducted at the University for beginners, who may also join the Junior class, as soon as they can do so advantageously.

The work of this class is based on Duerr's *Essentials of German Grammar*, *Am Anfang* (Holt & Co.) and the selections from Baumbach, prescribed for the Junior class.

JUNIOR CLASS.

The following works are to be translated and studied:

Baumbach, *Neue Märchen* (Hans Taps; *Die Königstochter, die nicht weinen konnte*; *Entenschnabel*; *Der Esel und der Kritiker*; *Eine Weihnachtsgeschichte*; *Der Besuch im Himmel*); Möbius, *Götter- und Heldensagen I*; *Carmen Sylva*, *Ein Gebet*; Fulda, *Das Verlorene Paradies* (Ginn & Co.); Gustav Freytag, *Der Staat Friederichs des Grossen* (Pitt Press); Goethe, *Das Märchen* (Heath & Co.).

There are also exercises in oral and written composition, based largely on the above works, dictation and formal grammar (Duerr's Essentials of German Grammar—Ginn & Co.) and sight translation.

SENIOR CLASS.

The following works will be studied:

Baumbach, Neue Märchen; Möbius, Götter-und Heldensagen I, II, III; Kulturgeschichtliche Novellen (Pitt Press); Paul Heyse, Vetter Gabriel; Theodor Storm, Der Schimmelreiter (Ginn & Co.); Grillparzer, Sappho (Macmillan & Co.); Uhland, Balladen (Balladenbuch-Macmillan & Co.); Goethe, Der Pfarrer von Sesenheim (Henry Holt & Co.), Balladen (Macmillan & Co.).

The work of the class also includes dictation, sight translation and oral and written composition, based on the above works.

HONOURS.

The examination in Preliminary Honours must be passed at least one year before the Intermediate, or the Intermediate and Final Examination.

Preliminary.

The following is the work for this class:

Baumbach, Neue Märchen; Frennsen, Jörn Uhl I-VII; Paul Heyse, Novellen (Vetter Gabriel, Der Verlorene Sohn, Das Mädchen von Capri, Anfang und Ende, Die Blinden); Theodor Storm, Der Schimmelreiter; Schiller, Maria Stuart, Geschichte des dreissigjährigen Krieges (Pitt Press); Goethe, Faust I, Gedichte III (Holt & Co., Göbel); Lessing, Nathan der Weise; Geschichte der deutschen Sprache (Behagel, I-III); Geschichte der deutschen Literatur (Koch, III, Sammlung Göschen), in connection with which a short course of lectures on the history of Germany is given; oral and written composition, based on the above works; dictation and sight translation.

Intermediate.

The work for this class is the same as for the Preliminary class, with the addition of the following:

Frennsen, Jörn Uhl; Scheffel, Ekkehart; Schiller, Wilhelm Tell, Balladen (Balladenbuch); Goethe, Iphigenie, Gedichte III, V (Göbel); Lessing, Emilia Galotti; Koch, Geschichte der deutschen Literatur, IV; *Das Nibelungenlied in Auswahl I-V (Sammlung Göschen).

Final.

The work of this class includes that of the Intermediate and the following:

Felix Dahn, Gelimer; Gustav Freytag, Soll and Haben; Schiller, Wallenstein, Über Naive und Sentimentalische Dichtung; Goethe, Faust II (Selections), Tasso, Gedichte (Göbel); Lessing, Erziehung des Menschengeschlechts, Laokoon I-V; Geschichte der deutschen Literatur (Koch); *Geschichte der deutschen Sprache (Behagel); *Wright's Old High German Primer—Muspili, Ludwigslied, Otfrid (Selections); *Ulfilas, Marcus I, II (Braune's Gotische Grammatik. For reference: Kleinpaul, Poetik.

Students who do not wish to qualify for specialists' standing, may substitute Hermann Lotze's Mikrosmos or Kaemmel's Werdegang des deutschen Volkes for the works marked with an asterisk.

The "German Club" meets fortnightly and is open to all students. Instructors and others also take part in it. Its work is practical and consists of conversation, conversational games, lecturettes—illustrated and otherwise, dramatic performances, etc.

EXTRA-MURAL STUDENTS.

The work for extra-mural students, pass and honour, is the same as for intra-murals. Exercises and subjects for composition are prescribed throughout the session. Competent oral instruction should be secured on the spot.

NOTE.—No candidate can pass any examination in German, Pass or Honour, who has not made the required standing in each of the essential parts of the examination, i.e., in Pass: Translation into English, Translation into German and Composition, Literature, Pronunciation and Dictation; in Honours, as in Pass, with the addition of philology and Orals.

ROMANCE LANGUAGES AND LITERATURE.

PROFESSOR—P. G. C. Campbell, M.A. (Oxon.).

ASSOCIATE PROFESSOR—E. W. Patchett, B.A. (Cantab.).

TUTORS—Miss Isabel MacInnes, M.A., H. Wittnich.

FRENCH.

Note for all classes:—No good work in French can be done without a large dictionary. Small pocket editions are worse than useless. One written entirely in French is best, and "Le Petit Larousse Illustré," while recommended for all classes, is indispensable for Honour students. Those who find they require an English-French Dictionary may try that by James & Molé (Macmillan's).

JUNIOR CLASS.

Works to be studied:—

Chateaubriand—Mémoires d'Outre Tombe (Clarendon Press).

Labiche—Le Voyage de M. Perrichon (Heath & Co.).

De Vigny—La Canne de Jonc (Pitt Press).

Anon—La Main Malheureuse (Heath & Co.).

Souvestre-Les Bannis (Macmillan's).

Contes et Nouvelles (Hachette & Co.).

Grammar treated by the Inductive Method.

Writing French from Dictation.

Translation into French and Essays based on the works read.

NOTE.—Elementary classes are held twice a week for those who have done but little French, fee \$3.

SENIOR CLASS.

NOTE.—Kron's "French Daily Life" is highly recommended to students as giving a very good and sufficient idea of French manners, customs, society, and institutions. Valuable as a book of constant reference.

Works set for study:—

Mme. de la Fayette—La Princesse de Clèves (Ginn & Co.).

Balzac—Cinq Scènes de la Comédie Humaine (Heath & Co.).

Victor Hugo—La Chute (American Book Co.).

France—Le Crime de Sylvestre Bonnard (Holt & Co.).

Foncin—Le Pays de France (Armand Colin).

Labiche—La Cagnotte (Heath & Co.).

The outlines of French Literature. Text-book: Rosey, "French Literature" (Blackie).

A thorough study of Grammar and Syntax, treated by the Inductive Method.

Unseen Translation.

Translation into French Prose. Text-book, "French Prose Composition for Middle Forms"—Duhamel & Minssen (Livingtons).

Writing French from Dictation.

Essays—Nov. 30th, La Préciosité.

Feb. 18th, to be written in French, British Methods of Colonization.

N.B.—All students, in order to be admitted to examination must write both the prescribed essays and at least 50 per cent. of the Proses set.

HONOURS.

Students are strongly advised to study the Examination Papers of the last seven years, as affording some guide to their own studies.

The "Wellington College French Grammar," by Eve & De Baudiss (published by D. Nutt), is highly recommended to all Honour students.

In Literature the following subjects will be specially studied during the year: *Religion in France*, (1) Historically—Church and State; (2) Temperamentally—Religion and Character. *The History of the French Drama*, from its origin. *The 16th Century and Rabelais*. *Comedy of Molière*. *On Types of Character in Literature*—Stationary and Developing, Universal and Particular.

(The examination in this class must be attempted at least one year before the Final examination.)

Preliminary.

TEXTS:—

- *Rabelais—"Selections," ed. by Wright (Macmillan's).
- *Corneille—Cinna.
Racine—Phèdre.
Molière—Les Femmes Savantes.
Voltaire—Histoire de Charles Douze.
D'Alembert—Discours Préliminaire de l'Encyclopédie.
Victor Hugo—Quatre-Vingt-Treize.
Balzac—Eugénie Grandet (Holt & Co.).
- *Sainte-Beuve—Selected Essays (Ginn & Co.), viz.: Chateaubriand,
Mme. Récamier, Qu'est-ce qu'un Classique? Roman de Renart,
A. de Musset, Histoire de l'Académie Française.
- *Bourget—Un Saint (Macmillan's).
Bornier—La Fille de Roland (Heath & Co.).
Unseen Translation.
Writing from Dictation.
- TRANSLATION INTO FRENCH PROSE. Text-book: Duhamel—"Advanced French Prose Composition" (Rivingtons).
- THE HISTORY OF FRENCH LITERATURE with special reference to the 17th, 18th and 19th centuries.
Text-book: Petit de Julleville—Leçons de Littérature Française.
Consult: The various studies of Sainte Beuve.
Brunetière—Manuel de l'Histoire de la Littérature Française.
- THE THEORY OF PHONETIC CHANGE and History of the French Language—a course of 24 lectures—for intra-mural students only.
- COMPOSITION IN FRENCH—Subjects for Essays and the date by which each Essay must be sent in:—
Nov. 17th, A Sketch of Richelieu and His Policy.
Dec. 13th, Cosmopolitanism and Nationality.
Feb. 10th, A critical study of "Phèdre."

Final Honours.

SECTION A.—THE LANGUAGE.

1. Translation into French Prose.
2. Unseen Translation from French Authors.
3. Free Composition in French.
4. Writing French from Dictation. (Intra-mural students will be examined during the term.)

*To be specially lectured on.

5. Oral Exercises in French.
6. A general knowledge of Grammar, Syntax and Idioms.

SECTION B.—LITERATURE.

1. The History of the French Literature; with a special study of different periods and authors each year.
For 1909-1910 see subjects given at the beginning of the prescription for Honours.
2. The Principles, in outline, of Literary Criticism applied to French Literature.
Consult: Aristotle's "Poetics" (ed. by Butcher), The Essays.
Courthope, "Life in Poetry, Law in Taste."
3. Texts prescribed for translation and study:
Cent. XVI.—*Rabelais—"Selections," ed. by Wright (Macmillans).
Cent. XVII.—Corneille—Horace, *Cinna.
Molière—L'Écossais, L'Avare.
Racine—Phèdre. Andromaque.
*Boileau—L'Art Poétique, Canto I.
Cent. XVIII.—D'Alembert—Discours Préliminaire de l'Encyclopédie.
Chateaubriand—Atala, René.
Voltaire—Mérope. Histoire de Charles Douze.
Cent. XIX.—Victor Hugo—Hernani. *Quatre-Vingt-Treize. Les Orientales.
Balzac—Eugénie Grandet (Holt & Co.).
*Sainte Beuve—Selected Essays (Ginn & Co.).
*Taine—L'Ancien Régime.
Loti—Pêcheur d'Islande (W. R. Jenkins).
*Brunetière—Époques du Théâtre Français.
Rostand—Cyrano de Bergerac.
*Bourget—Un Saint (MacMillan's).

SECTION C.—PHILOLOGY.

1. The General Theory of Phonetic Change.
2. The History and Development of the French Language.
Introductory Text-book—Clédat—Grammaire élémentaire de la vieille langue française.
3. The Grammar of Old French.
4. The Study of Old French Texts.
*Text: Léon Gautier—La Chanson de Roland.

*To be specially lectured on.

Consult for reference:—

Nyrop—"Grammaire Historique de la Langue Française."

Gröber—"Grundriss von Romanischer Philologie."

Meyer Lübke—"Grammaire des Langues Romanes."

Clédat—"Nouvelle Grammaire Historique."

ESSAYS for 1909-1910 for all Final Honour student:

Nov. 3rd—A critical study of "Cyrano de Bergerac."

Dec. 1st—Shakespeare's Conception of the French Character.

Mar. 15th—La Pléiade Française.

These essays to be written in French.

NOTE on Specialist Course V.—Those taking this course must, in French, take Section A, and *either* Section B *or* Section C.

ITALIAN.

(Italian is not obligatory for any course save for Ph.D. work.)

Voluntary classes are held. No fee. Tickets to be obtained from the Registrar.

FIRST YEAR—Grammar—(Grandgent).

Unseen Translation.

De Amicis—Il più bel Giorno della Vita.

Dante—Inferno I-II.

SECOND YEAR—Translation into Italian (Grandgent's Italian Composition).

History of Italian Literature (Snell's Primer of Italian Literature).

Dante—Inferno I-X.

Tasso—La Jerusalemme Liberata I-II.

Del Testa—Le Consistenze Elastiche.

Carcano—La Nunziata.

Unseen Translation.

SPANISH.

Valera—El Pájaro Verde (Ginn & Co.).

Moratin—El sí de las Ninas (Ginn & Co.).

Alarcón—El Capitán Veneno (Heath & Co.).

Calderon—La Vida es Sueno (Heath & Co.).

Cervantes—Don Quixote (Heath & Co.).

Edgren's Grammar (Heath & Co.).

Ford's Composition (Heath & Co.).

Writing Spanish from Dictation.

Outline of the History of the Literature.

*To be specially lectured on.

Extra-Mural Students.

Extra-mural students should obtain competent teachers for oral instruction. Pass candidates may take the oral examination at outside centres, provided an examiner approved by the Senate be obtained; but Final Honour candidates must pass their oral examinations at the University.

No extra-mural student will be admitted to examination, unless he has written all the prescribed essays and at least 50 per cent. of the prescribed Proses.

NOTES FOR DIFFERENT CLASSES:

1. *Junior.* Students on registering will receive instructions as to the prescribed Proses and the two Essays set.

The prescribed text-book for Prose is "Primer of French Prose Composition"—Duhamel & Minssen (Rivingtons).

2. *Senior.* The work prescribed is precisely the same as for intra-mural students. Revision papers on all the set books are sent from time to time.

3. *Preliminary Honours.* Instead of the Paper on Phonetics, extra-mural students will be set a general paper on Grammar, Syntax and Idioms; see the papers set for the last four years.

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR—James Cappon, M.A.

ASSISTANT PROFESSOR—John Marshall, M.A.

LECTURER—John F. Macdonald, M.A.

TUTOR—R. J. McDonald, M.A.

JUNIOR CLASS.

1. Practical course in Rhetoric and Composition.
 - (a) General Theory and illustrations.
 - (b) Exercises on the above, with essays.
2. Study of Prose Authors in selected passages. Development of English Prose as illustrated by Bacon, Addison, Johnson, Macaulay, Ruskin, Carlyle, Huxley, Arnold, and others.
3. A detailed study in the class of the following:

Chaucer, Prologue to Canterbury Tales. (The descriptions of the Knight, Squire, Prioress, Monk, Student, Merchant, Franklin, Shipman, Parson).

Shakespeare, Julius Caesar.

Longfellow, Prelude, Nuremberg, The Belfry of Bruges, The Skeleton in Armour, Amalfi, The Village Blacksmith, The Day is Done, The Secret of the Sea.

Tennyson, The Palace of Art, The Lady of Shalott, "Love Thou Thy Land," The Lord of Burleigh.

Wordsworth, Ruth, Fidelity, The Two Voices, Lines Written near Tintern Abbey.

SENIOR CLASS.

I.

Course in Historical Development of Poetic Literature.

(a) Anglo-Saxon Origins.

The Poetry of Chaucer.

The Ancient and Modern Ballad.

History of the Sonnet.

Origin of the English Drama.

Development of Blank Verse.

Literary Characteristics of the 18th Century.

The School of Dryden and Pope.

Development of the Rhymed Couplet.

(b) Specimens to be read in connection with the above course:

From Chaucer's Prologue (The Knight, the Squire, the Prioress, the Monk, the Clerk of Oxford, the Franklin, the Parson).

Ballads, Sir Patrick Spens, Chevy Chase, Jamie Telfer, Coleridge's Ancient Mariner, Scott's Eve of St. John, Wordsworth's Ruth.

Sonnets, "Milton! thou should'st be living at this hour" (Wordsworth), "Scorn not the Sonnet; Critic, you have frowned" (Wordsworth).

Dryden, Epistle to Mr. Congreve, The Descriptions of Achitophel and Zimri in *Absalom and Achitophel*.

Pope, Epistle to Arbuthnot (Satires).

Gray, Elegy, The Progress of Poesy.

Johnson, Vanity of Human Wishes.

Goldsmith, The Deserted Village.

Consult Gosse, Eighteenth Century Literature, Chaps. I, III, IV and IX, X, XI.

II.

Shakespeare, Hamlet.

Milton, Paradise Lost, Book I.

Wordsworth, Song at the Feast of Brougham Castle, Lines written near Tintern Abbey.

Keats, Ode to the Nightingale.

Browning, A Grammarian's Funeral, Abt. Vogler, a Toccata of Galuppi's.

III.

Macaulay, Boswell's Life of Johnson.
Carlyle, Essay on Burns.
Matthew Arnold, Essay on Wordsworth.

IV.

Lectures on the History of the English Language.
From Morris and Skeat's Specimens of Early English, Part II,
the extract from Robert of Gloucester.

HONOURS.

Preliminary.

1. Anglo-Saxon:—(Sweet's Anglo-Saxon Reader).
Alfred's Preface to the *Cura Pastoralis*.
Alfred's Translation of Boethius.
Alfred's Translation of Bede (Account of the Poet Caedmon).
Aelfric's Assumption of St. John.
Aelfric's Life of King Oswald.
Extract from the Beowulf, lines 1-150.
The Battle of Maldon.
2. Skeat, Principles of English Etymology (Chaps. VII, X, XI, XVIII, XIX, XXI).
For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co.).
3. Ten Brink, Early English Literature, Book I.
Morris & Skeat, Specimens of Early English, Part II, Extracts I and VII.

Intermediate.

Cowper, Table Talk, Progress of Error, Task, Book I.
Wordsworth, The Prelude, Books I, II, III, IV; the following poems from "Lyrical Ballads": The Thorn, Simon Lee, The Last of the Flock, The Idiot Boy, Expostulation and Reply, The Tables Turned, The Complaint of a Forsaken Indian Woman, Lines Written near Tintern Abbey, Hart Leap Well, There Was a Boy, Lucy Gray, Ruth, Lines Written upon a Tablet, The Two April Mornings, Nutting, Three Years She Grew, The Old Cumberland Beggar, Michael; the poems published as "Memorials of a Tour in Scotland (1803)"; the poems "dedicated to National Independence and Liberty," Yew Trees, She was a Phantom of Delight, I Wandered Lonely as a Cloud, Song at the Feast of Brougham Castle, Laodamia, Dion, Peter Bell, Fidelity, Ode to Duty, Character of the Happy Warrior, Ode on Immortality, Excursion Book I.

Keats, Ode on a Grecian Urn, Ode to a Nightingale, Isabella, Lamia.

Byron, Bride of Abydos, Childe Harold, Canto I-III.

Tennyson, Ulysses, Morte d'Arthur.

Clough, The Bothie, Through a Glass Darkly, Ah! Yet Consider it again, Qua Cursum Ventus.

Browning, (a) The Grammarian's Funeral, Andrea Del Sarto, Fra Lippo Lippi, Pictor Ignatus, The Bishop Orders His Tomb, Bishop Blougram, How it strikes a Contemporary, Epistle of Karshish, Cleon; (b) Abt Vogler, Rabbi Ben Ezra, A Toccata of Galuppi's, The Laboratory, The Glove, Dis Aliter Visum, Youth and Art, Waring, The Englishman in Italy, Old Pictures in Florence.

Arnold, on Translating Homer, Essays on Wordsworth and Byron, Essay on Poetry, (Essays in Criticism, Second Series), Culture and Anarchy, Chap. III.

Carlyle, Sartor Resartus, Book I, Chaps. I, III, IV; Book II, Chaps. I, II, III, V, VII, VIII, IX; Book III, Chaps. III, IV, V, VII, VIII; Past and Present (Chapters: Phenomena, Mammonism, Dilettantism, Labour, Reward, Democracy).

Ruskin, On Geneva.

Gibbon's Rome, Chap. XXXV.

J. H. Newman, Ancient Athens.

Candidates are expected to have a critical understanding of the development of poetry from Cowper to Tennyson.

Final.

(Every candidate for Final Honours is subject to re-examination on the Intermediate texts.)

A.

Shelley, Alastor, Hymn of Pan, Stanzas written near Naples, Hymn to Intellectual Beauty.

Ruskin, Modern Painters, Vol. I, Part I, Chaps. I to V (Introductory, Greatness in Art, Ideas of Power, Ideas of Imitation, Ideas of Truth), Part II, Chaps. III and V (Truth of Chiaroscuro, Truth of Space), Vol. III, Part IV, Chaps. IV to VII, (of the False Ideal, of the True Ideal), Chap. XII (of the Pathetic Fallacy), Chap. XVIII, The Teachers of Turner.

Carlyle, French Revolution, Book I, Chaps. I and II, Life and Letters of Cromwell, [Introduction, Letters CXXXIX and CXL, containing accounts of the Battle of Dunbar (Part VI); Letter CLXXXVII, The Dismissal of the Rump (Part VII)].

Emerson, The Method of Nature, Literary Ethics (Essays and Orations).

Arnold, Essays in Criticism (First Series), Sonnets: Quiet Work, To a Friend, Written in Emerson's Essays, Thyrsis, Memorial Verses.

In addition the candidate is expected to read the following works and to answer questions of a general nature on their style and contents.

Scott, *Redgauntlet*, *Old Mortality*.

Thackeray, *Vanity Fair*.

Hawthorne, *The House of the Seven Gables*.

Carlyle, *Life of John Sterling*, Part I.

Candidates are expected to have a critical understanding of the development of thought, as expressed in literature, during the 19th century.

B.

1. The poetry of Chaucer is the centre of studies in this course.
2. Origin and development of the octosyllabic couplet; origin and development of decasyllabic verse.
3. The *Compleynte unto Pite*, The Book of the Duchess, and the Legend of Dido (Legend of Good Women). Use Skeat's edition of Chaucer's Minor Poems and The Legend of Good Women.
4. The structure of the stanza, Dante's theory of the stanza, the 4-line stanza, the 7-line stanza, the Spenserian stanza.

Consult Ten Brink, Chaucer, *Studien zur Geschichte seiner Entwicklung*.
Chaucer's *Sprache und Verskunst*.

Sandras, *Etude sur Chaucer*.

Gaston Paris, *La Littérature Française, Au Moyen Age*, Section II, Chap. V (*Le Roman de la Rose*), Section III, Chaps. I and II.

Schipper, *Altenglische Metrik* (*Englische Metrik, Erster Theil*).

Grober, *Romanische philologie* (*Romanische Verslehre von E. Stengel*).

EXTRA-MURAL STUDENTS.

There are tutorial courses for extra-mural students in Junior, Senior and Honours English. The subjects for study are the same as those prescribed for intra-mural students, with the following exceptions (already noted in the list of subjects for each class):—

In studying the development of Poetry and Poetic Forms, extra-mural students of the Senior class might with advantage consult Corson's *Primer of English Verse* and Gummere's *Hand-book of Poetics*; and for the history of the language, O. F. Emerson's *History of the English Language* (Macmillan & Co.), Chaps. III, IV, V, VII, IX, X, XIII, XIV, XV, XVII, XVIII, XIX, XX, XXI, XXII.

Students in Preliminary Honours will read the whole of Emerson's *History of the English Language*.

Extracts from Prof. Cappon's lectures will be sent regularly to extra-mural students in all the classes, for the purpose of indicating the range and standard of work required and the methods of analysis and criticism used.

Along with the extracts, directions for study and exercises will be sent to the student who is required to write the latter and return them for correction.

ELOCUTION.

1. *Elements of Vocal Training.* Correct method of breathing. Training of the natural use of the voice. Faults of the voice, studied and corrected.
2. *Principles of Vocal Training.* Study of the vocal instruments and their natural use. Science of voice production.

II. PHONOLOGY.

1. *Vowels. Principles of vowel formation.* Distinction between vowels and articulations (Consonants).
2. *Articulation. Study of the elements of speech.* Development of the organs of articulation. Correction of common faults.
3. *Pronunciation. Training of the ear. Vocal Quantity.*

VOCAL EXPRESSION.

1. *Elementary principles of Vocal Expression...* Principles of inflection. Modulation. Emphasis. Verbal Grouping. Pausing. Expressive Reading.

IV. GESTURE.

1. *Elementary Gesture.* Nature and kinds of action.
2. *Manifesting Gesture.* Study and development of the action of each agent of the body and expression.
3. *Representative Expression.*

NOTE ON GESTURE.—The training outlined on Gesture is intended to dignify the study of it, by taking it out of the realm of study artificially, and by showing it to be a vital, organic part of the oral interpretation of literature and of public speaking. This training consists of Physical exercises for which special classes will be arranged.

NOTE—INDIVIDUAL DRILL.—Students will be shown and helped personally in the particular work of the course. Two and a half hours each day will be devoted to individual drill.

V. ADVANCED WORK.

Principles of vocal expression. Assimilation and dramatic instinct. Development of the imagination. Rhythm and melody in speech. Tone-color and harmony. Problems in vocal expression. Study of elementary physis

action and the practice of short extracts as the means of studying and expressing thought and feeling. Extemporaneous speaking.

Students passing this course will be allowed 5 marks on either the Junior or Senior English examination. A fee of \$3 will be charged.

HISTORY.

PROFESSOR—J. L. Morison, M.A.

FELLOW—D. A. McArthur, M.A.

PASS CLASSES.

English History.

This class is to be regarded as one in Mediaeval History, illustrating the development of institutions, etc., mainly from the point of view of England. The ground covered will extend from the Roman period to the end of the fourteenth century, and the text-books will be Green's Short History for the whole period (to 1400), and Davis's 'England under the Normans and Angevins' for more detailed study of the years 1066-1272. For the European aspect, students will read Church's 'The Beginning of the Middle Ages' (Epoch of History series), and in addition know something of the Crusades, the struggle between Empire and Papacy, and the development of the Mediaeval Church.

Essays:—(Extra-mural students do four, intra-mural students three).

I. Nov. 5th. *Early Society and Life in Northern Europe.*

A description of the main facts, social, political and religious, to be taken either from 'Beowulf'—of which there are many translations—or from any of the Icelandic sagas, more particularly either 'The Story of Njal,' or 'Grettir,' or the Laxdale saga. A good history of Early English Literature will help in the former case, Dunsen's Introduction to Njal or some such sketch of Norse history as Carlyle's "Early Kings of Norway," in the latter.

II. Dec. 3rd. *'William the Conqueror, a study in personality and statesmanship.'*

Davis's book will prove very useful here; and in addition Freeman's William the Conqueror (Twelve English Statesmen series), and Stubbs' Constitutional History, Vol. I.

III. Jan. 14th, 1910. *'St. Francis of Assisi and the Beginning of the Friars.'*

Students are specially recommended to read 'The Mirror of Perfection,' or 'The Little Flowers of St. Francis,' lives, contemporary, or nearly so, of Francis. Of modern lives, Sabatier's is the best; Mrs. Oliphant's is also readable.

IV. Feb. 14th. Either '*Chivalry in England under Edward III.*' or '*The condition of the labouring classes under Edward III.*' For the former, read Green, and then study Edward's reign in Froissart (Globe edition); for the latter, '*England in the age of Wycliffe*,' by G. M. Trevelyan.

Modern History.

This class will deal with modern English History from 1603 to the end of Victoria's reign; and special attention will be paid to the development of colonisation, more particularly in the United States and Canada. Green's History will furnish the main outline, but students, and especially extra-mural students, are strongly advised to know these books in addition:—Seeley's Expansion of England; Goldwin Smith's United States, and McCarthy's Short History of Our Own Times.

Essays: (Extra-mural, four; intra-mural, three).

1. Nov. 9th. '*What 'Liberty' meant to a Seventeenth Century Puritan.*'

For this essay, students will read carefully Milton's Areopagitica, and criticise the argument of the book in contact with contemporary history. Green and 'Areopagitica' will suffice, by way of reading.

2. Dec. 7th. '*The imperial policy of the elder Pitt.*'

Students will deal here more particularly with Pitt's policy during the Seven Years' War; his attitude towards American taxation, and his general views on colonisation. Read Harrison's 'Chatham' (Twelve English Statesmen), or 'Pitt' in 'Heroes of the Nations.'

3. Jan. 16th, 1910. '*The Irish Union*'—a defence or an attack.

Students will endeavor to know the facts and state their own opinions. The subject has been dealt with by Rosebery in his 'Pitt'; in vol. 5 of Lecky's "History of Ireland in the Eighteenth Century"; and, shortly, by O'Connor Morris in 'Ireland, 1494-1868.' Read whatever biassed accounts offer, remembering however that opinions are not facts.

4. Feb. 4th. '*England in Egypt.*'

Study either Lord Cromer's 'Modern Egypt,' or Lord Milner's book on the subject. The other side of the question is given by W. S. Blunt.

HONOURS.

Preliminary.

The main subject for session 1909-10 will be '*Diplomatic and International Problems of the Nineteenth Century.*' This course will include lectures on:—The Development of Nationality in Europe; the Eastern Question; the History of European Social Questions; the Far East; the Problems of the British Empire, i.e., Ireland, India, Egypt, the Constitution of the Empire; the Growth of the U.S.A.; Religious and Ecclesiastical Developments in Europe.

No one text-book is prescribed, but Robinson and Beard's 'Development of Modern Europe' discusses many of the questions in slightly elementary form, and Fyffe's 'Modern Europe' gives a full treatment of the European facts down to 1878. Students, both intra-mural and extra-mural, will send in an essay by Christmas, showing first-hand knowledge on one of the following subjects:—'The Political Creed of Mazzini'; 'W. E. Gladstone and his Irish Policies'; 'Russia in Asia'; 'Church and State in Modern France.' Extra-mural students desiring advice, will write directly to Professor Morison.

Every Friday the second topic will be discussed, *Canadian History, from the Fall of Quebec to the Beginning of the Laurier Ministry.* The text-books will be Egerton's History of Canada, and Egerton and Grant's 'Constitutional Documents.' Before the middle of March, students will send in their second essay, dealing fully with some aspect of Modern Canadian History. They will choose some definite point, constitutional or political, in consultation with Professor Morison. Both essays count substantially in the degree examination.

Final.

The work of this section will be conducted mainly on 'Seminar' lines, *i.e.*, extra-mural students should, if possible, attempt to pass this year in college; as otherwise, special arrangements will have to be made, less valuable educationally than the Seminar work. This class will occupy itself with two topics—up to Christmas, on '*Some Points in English Colonial Policy*,' using Egerton's 'Short History of Colonial Policy' as guide; after Christmas, on '*Thirty Years of European History—1559-1588*' with the Cambridge Modern History, vol. III, as guide. Each member of Seminar will prepare two papers and sit an examination in connection with each Seminar section. Besides this, there will be a general examination on English History, from 449 A.D. to 1815; no lectures, beyond those in the pass classes, will be given in connection with this subject.

Members of the Preliminary Honours class, 1908-9, will have the option of continuing on the lines laid down in last year's Calendar, but no lectures will be given in connection with that scheme.

Extra-Mural Students.

As the essays are integral parts of the degree examination, extra-mural students *must send in all four essays.* Where essay work is evaded, equivalent deductions will be made from the April and Fall examination percentages; the essays bearing towards that examination approximately the proportion of forty to sixty per cent.

Honours extra-mural students are requested to intimate at once to the professor their intention of working the classes. Neglect of this involves delay in sending out instructions.

Final Honours students will note the recommendation to pass the final year in college. Arrangements will, of course, be made, for exceptional cases.

MENTAL AND MORAL PHILOSOPHY.

"THE JOHN AND ELLA G. CHARLTON PROFESSOR OF MORAL PHILOSOPHY"—

John Watson, M.A., LL.D.

PROFESSOR OF MENTAL PHILOSOPHY—S. W. Dyde, D.Sc., LL.D.

FELLOW IN MORAL PHILOSOPHY—D. C. Ramsay, M.A.

FELLOW IN MENTAL PHILOSOPHY—J. L. Nicol, M.A.

MENTAL PHILOSOPHY—Professor Dyde.

This class meets Monday, Wednesday and Friday at 9 a.m. and is divided into two parts (a) Outline of Philosophy, and (b) The study of a special period of Philosophy.

- (a) Lectures on the method of Philosophy; a brief outline of Metaphysics, Ethics, Psychology, Æsthetics, and Philosophy of Religion.

Books recommended to be read:

Mackenzie's Outline of Metaphysics and Manual of Ethics.

Bosanquet's Psychology of the Moral Self.

Palmer's The Field of Ethics.

- (b) The History of Greek Philosophy. Study of Plato's Theætetus and Aristotle's Ethics (Peters' or Welldon's translation).

Books recommended to be read:

Plato, Republic; Wallace, Epicureanism.

Attendance, sessional examinations, and exercises are compulsory.

MORAL PHILOSOPHY—Professor Watson.

Text-book: Watson's *Outline of Philosophy with Notes Historical and Critical*. Supplementary Lectures on the History of Modern Philosophy. Tuesday and Thursday. Attendance and exercises are compulsory.

SPECIAL VOLUNTARY CLASS, 1909-10—Professor Dyde.

A special course of lectures on The Sublime and Beautiful, one hour a week, Wednesday, 2 p.m., free and open to students in any of the faculties.

Burke's Essay on the Sublime and Beautiful (Henry Frowde: The Works of Burke, vol. I), can be procured separately, and should be carefully studied.

HONOURS.

Preliminary.

Course 1. Critical study of Modern Philosophy. Professor Watson.

(a) Lectures on Kant's predecessors.

Text-book: Rand's Modern Classical Philosophy, pp. 1-346.

(b) Interpretation of the Philosophy of Kant.

Text-books: Watson's Selections from Kant and Philosophy of Kant Examined.

Course 2. A brief course of lectures on Aesthetics. Professor Dyde.

Text-book: Aristotle's Poetics.

Intermediate.

1. The work of Preliminary Honours.

2. One of the following courses:—

(a) Critical study of Contemporary Philosophy, with special reference to Idealism, Pragmatism and Realism. Professor Watson.

Text-books: Watson's Outline of Philosophy (Supplementary Notes) and Philosophical Basis of Religion.

References: The works of T. H. Green, William James, F. C. S. Schiller, H. Sturt, B. Russell, and G. E. Moore (prescribed passages).

Students will also be referred to current discussions of these topics in the philosophical journals.

(b) Study of part of Hegel's *Wissenschaft der Logik*. Professor Watson.

Different sections are read in successive years, so that the whole of the two books prescribed for the degree of Doctor of Philosophy is ultimately studied.

(c) Plato's Republic, or Aristotle's Ethics. Professor Callander.

Students who choose this course, besides passing an examination on the Greek text, will be examined on the contents of the work professed. This course covers part of the requirements for the degree of Doctor of Philosophy.

(d) Comte's Philosophie Positive, or Politique Positive. Professor Campbell.

Besides an examination on the French text, candidates will be examined on the substance of the work professed. This course covers part of the requirements for the degree of Doctor of Philosophy.

(e) Lotze's Mikrokosmos. Professor Patchett.

Candidates will be examined on the substance as well as the text. This course covers part of the requirements for the degree of Doctor of Philosophy.

3. One of the following courses. Professor Dyde.

- (a) Reading of Plato's *Sophist* in the original, *or* Study of Plato's *Theætetus*, *Sophist*, *Philebus*, and portions of the *Timæus* and *Laws*.

Essays:

15th Nov.:—Plato's *Dialectic* (Plato's *Sophist*).

20th Dec.:—The *Sophistic Conception of the State*. (Plato's *Protagoras* and *Republic II*, Aristotle's *Politics I*).

7th Feb.:—Plato's *Proof of the Existence of God* (*Republic II, III, Laws X-XII*).

14th March.:—Aristotle's *Definition of Tragedy* (Aristotle's *Poetics*, Bosanquet's *History of Aesthetic*).

- (b) Examination of the English text of Hegel's *Philosophy of Right*. This work is divided into two years, but may be taken in one.

Essays:

15th Nov.:—Hegel's *Theory of Crime and Punishment* (*Phil. of Right*, pp. 90-103; Bosanquet, chap. VIII).

20th Dec.:—*Time and Dialectic* (*Phil. of Right*, section 3, 341-360, etc.).

7th Feb.:—*The Nature of Evil* (*Phil. of Right*, section 140).

14th March.:—*Religion and the State* (*Phil. of Right*, section 270).

- (c) Study of Kant's *Critique of Judgment* (portions of which to be read in the original), *or* Ruskin's *Modern Painters* (selected chapters).

15th Nov.:—Aristotle's *conception of Comedy and Tragedy* (Aristotle's *Poetics*).

20th Dec.:—Aristotle's *conception of Poetry* (Aristotle's *Poetics*).

7th Dec.:—Kant's *Theory of The Sublime* (*Critique of Judgment*), *or* Ruskin's *View of the Imagination*.

14th March—*Beauty and Ugliness* (Bosanquet's *History of Aesthetic*).

NOTE.—As a substitute for the essays required in this and the other departments, a more comprehensive essay, not less than 40 pages of foolscap in length, may be offered.

Final.

1. The work of Preliminary Honours.
2. Critical study of Contemporary Philosophy, as in Intermediate Honours.
3. One of the following courses, as in Intermediate Honours:
 - (a) Study of part of Hegel's *Wissenschaft der Logik*.
 - (b) Plato's *Republic*.
 - (c) Aristotle's *Ethics*.
 - (d) Comte's *Philosophie Positive* or *Politique Positive*.
 - (e) Lotze's *Mikrokosmos*.

4. Two of the following courses, as prescribed for Intermediate Honours:
 - (a) Plato's Sophist.
 - (b) Kant's Kritik der Urtheilskraft.
 - (c) Hegel's Philosophy of Right.
5. Seminary for special study of some branch of philosophy. Weekly reports. Professor Watson.

Candidates for Final Honours are expected to read such works as Windelband's History of Philosophy, Höfding's History of Modern Philosophy, Caird's Critical Account of the Philosophy of Kant, Green's Introductions to Hume and Prolegomena to Ethics, Bradley's Logic and Appearance and Reality, Bosanquet's Logic, History of Aesthetic and Philosophical Theory of the State, and Wallace's Logic of Hegel.

Candidates in Philosophy may qualify for the degree of M.A. by taking Final Honours, or Intermediate Honours together with Honours in Latin, Greek, French, German, English, History, or Political Science.

Extra-Mural Students.

MENTAL PHILOSOPHY.

Students are expected to show familiarity with the substance of the books mentioned below. They are recommended to take up the work in the following order:

1. Schwegler, History of Philosophy, XI-XV.
 Plato, Theætetus (Dyde's Translation).
 Plato, Republic, Bks. I, II.
Essay for 15th Oct.:—The relation of Plato to the Sophists.
2. Plato, Republic, Bks. III-VII.
 Schwegler, History of Philosophy, XIV.
**Essay for 1st Nov.:—Plato's Theory of Education.*
3. Aristotle, Nichomachean Ethics (Peters' Translation).
 Schwegler, History of Philosophy, XVI.
Essay for 21st Dec.:—The relation of Aristotle's Ethics to his Psychology.
4. Schwegler, History of Philosophy, XVII-XXI.
 Capes, Stoicism (New York: Pott, Young & Co.).
 Wallace, Epicureanism.
Essay for 1st Feb.:—Stoicism and Epicureanism.
5. Schwegler, History of Philosophy, XXII-XXVI.†
Essay for 15th Feb.:—The Principles of the Cartesian Philosophy.
6. Schwegler, History of Philosophy, XXVII-XXXV.
 Fraser, Selections from Berkeley.
 Fraser, Berkeley (Blackwood's Philosophical Classics).
Essay for 14th March:—The Development of the Philosophy of Berkeley.

MORAL PHILOSOPHY—Professor Watson.

Students will be examined on Watson's "Outline of Philosophy with Supplementary Notes Historical and Critical," "Selections from J. S. Mill," and "Hedonistic Theories." Exercises will be prescribed. These are compulsory and they will be examined and corrected by the Tutor, under supervision of the Professor.

HONOURS.

The Honours courses for extra-mural students are the same as the Honours courses for intra-mural students, except that additional essays are required, for which the Professors must be consulted.

*Nettleship's article on "Plato's Theory of Education" in *Hellenica* (Rivingtons) is very valuable, but a minute knowledge of it will not be required.

†See also Caird's article "Cartesianism" in the *Encyclopædia Britannica* or in his *Essays, Literary and Philosophical*, Vol. II.

POLITICAL SCIENCE.

PROFESSOR—O. D. Skelton, M.A., Ph.D.

ASSISTANT PROFESSOR—W. W. Swanson, M.A., Ph.D.

ECONOMICS.

The work of this class will involve an examination of the principles of Political Economy, and their application in such practical problems as money, banking, the tariff, taxation, transportation, and the labor question, with supplementary lectures on Economic History.

Ely's *Outlines of Economics* (1908 edition).

POLITICS.

This class affords an introduction to the study of the theory of the state and of the structure and working of government. The lectures comprise two courses:

1. Comparative National Government, an examination of the form and actual working of the central governments of Great Britain, the United States and Canada. Wilson's *The State*, and supplementary reading.
2. History of Political Theory, an outline of the development of systematic political thought from the classical period to the present. Pollock's *History of the Science of Politics*, with supplementary references.

Economics and Politics may be taken during the same session. In both classes essays will be prescribed.

HONOURS.

The two years' work in Honours will be spent in the study of some of the more significant theoretical and practical problems in Economics and Politics. Special attention will be given the Canadian aspect of each question. In their first year in Honours, students will be examined on the Preliminary work prescribed; in their final year, on both the Preliminary and Final work prescribed for that session—the Preliminary class covers different ground in the two years.

A thesis embodying independent work in some section of the Honour course will be required from every candidate for Final Honours. A seminar will be held for the informal discussion of current economic and political topics.

Preliminary or Final Honours may be taken as a Pass class.

Preliminary.

1. A course in the development of systematic economic thought, with special stress on the writings of the classical school. Ingram's History of Political Economy, Adam Smith's Wealth of Nations, John Stuart Mill's Principles of Political Economy.

2. Labor Problems. A study of the methods and policies of trade unions, and of current tendencies in labor legislation. Adams and Sumner's Labor Problems.

3. An examination of the principles and problems of money, and of the world's leading banking systems. Scott's Money and Banking.

4. English Political Theory in the Nineteenth Century. A study of representative English writers on political theory, including Bentham, Mill, Spencer, Maine and Green. Readings in the authors studied.

Final.

1. Trusts and Corporation Finance. A study of the main causes and effects of industrial combination, and of the methods and principles of corporate financiering. Jenks' The Trust Problem, Greene's Corporation Finance.

2. Tariff and Trade. An examination of the case for protection, with special attention to the question of imperial preference. References to current fiscal literature.

3. Socialism. An analysis of Marxism and of the recent revisionist and syndicalist movements, with some reference to British and American developments. Kirkup's History of Socialism.

4. Canadian Constitutional Law. A study of the British North America Act and of the leading cases bearing on the powers of the Dominion and the provinces.

Session of 1910-11.

Preliminary.

1. Comparative National Government.
2. Municipal Government.
3. Jurisprudence.
4. Public Finance and Taxation.

Final.

1. Railroad Transportation.
2. International Law.
3. Canadian Financial History.
4. Introduction to Anthropology.

Extra-Mural Students.

In each of the Pass classes a series of exercises will be provided, containing notes on the texts and questions on points of detail to be answered as concisely as possible. Scope for more extended discussion will be found in the essays prescribed.

ECONOMICS.

Candidates will be examined on the following books:

- Ely's Outlines of Economics.
- Cheney's Industrial and Social History of England.

Essays during session 1909-10:

- The causes of the Industrial Revolution.
- The effect of trade unions on the rate of wages.
- The causes of the growth of the modern trust.
- The advisability of maintaining a protective tariff in Canada.

POLITICS.

Candidates will be examined on the following books:

- Aristotle's Politics, Welldon's translation.
- Pollock's History of the Science of Politics.
- Wilson's The State.

Essays during session 1909-10:

- Aristotle's verdict on Democracy.
- The social contract theory.
- The function of the state.
- The place of the judiciary in the British and American Constitutions.

HONOURS.

The course prescribed will be the same as in the case of intra-mural students. Critical notes will be provided. In the Preliminary class essays will

be assigned individually. Final Honour candidates will be required to present a thesis embodying independent work in some special field.

Extra-mural students are required to pay a fee of \$5.00 for either the Preliminary or Final Honour Class.

MATHEMATICS.

PROFESSOR—N. F. Dupuis, M.A., F.R.S.C.

ASSISTANT PROFESSOR—J. Matheson, M.A.

ASSISTANTS—L. A. H. Warren, M.A., L. Malcolm, M.A., B.Sc.

TUTOR—D. Ellis, M.A.

A time-table for Mathematics, in both Arts and Science, will be posted at the beginning of the session, or as soon as it can be satisfactorily arranged.

JUNIOR CLASS.

The theory and practice of *Algebra* to the Binomial theorem inclusive. Dupuis' *Algebra*—the first thirteen chapters, omitting chapter XI.

Geometry of the point, line, and circle in the plane. Parts I and II, and selections from Part III, Dupuis' *Plane Geometry*.

Trigonometry, Elementary Principles.

Besides numerous class-exercises, periodical written exercises will be required.

SENIOR CLASS.

Algebra—Dupuis' *Algebra*, from the twelfth chapter to the end.

Geometry—Part III of Dupuis' *Plane Geometry*, and the first 131 pages of Dupuis' *Solid Geometry*.

Trigonometry—Preceding De Moivre's theorem.

Besides numerous class-exercises, periodical written exercises will be required.

HONOURS.

Candidates who matriculate with Honours in Mathematics are not required, in their subsequent Honour Course, to take either the Junior or the Senior Class, but they are advised to read the *Geometry* of the Junior Class.

Candidates who do not matriculate with Honours must take the Junior Class as preparatory to their Honour work, but they need not take the Senior Class inasmuch as the work of this class is covered in the first group of Honour subjects.

Group I.

1. *Synthetic Modern Geometry*.—One hour per week for the first term and two hours per week for the second term.

Work as in Dupuis' Plane Geometry, Parts III, IV, V, with exercises from various sources.

2. *Algebra I.*—One hour per week during the session.

Synopsis of Work: The progressions; permutations and combinations; binomial theorem; remainder theorem; solution of numerical equations with incommensurable roots; inequalities; undetermined coefficients and various applications; partial fractions, expansion of functions, etc.; continued fractions; logarithms; exponential and logarithmic series; recurring series; difference series; interpolation; summation of series; convergency of series; elementary determinants and their application to the solution of linear equations.

3. *Trigonometry I.*—One hour per week during the session.

Synopsis of Work: Contracted methods with decimals; radians and degrees; trigonometric functions; interrelation of functions; variation of functions with increase of angle; graphs; solution of right-angled triangles; orthogonal projection; addition formulæ; transforming sums into products, and vice versa; multiple and submultiple angles; applications to triangles, quadrangles and regular polygons; tables of functions, natural and logarithmic; logarithmic formulæ; inverse functions; solution of trigonometric equations; limits and approximations; series for sine and cosine. Numerous exercises.

4. *Conics I.*—two hours per week for the first term and one hour per week for the second term.

Synopsis of Work: Co-ordinate systems; rectilinear and polar and their interrelations; co-ordinates of distinctive points; point at infinity; the straight line; standard equation; perpendiculars, bisectors, etc.; relations of two or more points and lines; collinearity and concurrence; the triangle and the quadrangle; translation of origin. Equations of two dimensions; factorization and the discriminant. The general equation. The circle, with its secant and tangent lines; inverse points and inversion; pole and polar; conjugate points; conjugate figures; Salmon's theorem; radical axis and centre; systems of coaxial circles. The parabola with its tangents and normals; centre of curvature; equation with one variable, etc. General conic and variations of asymptotes; conjugate axes; theorems of Apollonius and other theorems; ellipse and hyperbola; tangents, normals and pedals; eccentric angle; problems and exercises throughout.

Books, etc.:—

1. Dupuis' Plane Geometry, Parts III, IV, V.
2. Dupuis' Algebra, with examples from various sources.
3. Hobson and Jessop's, and also Lachlan and Fletcher's Plane Trigonometry.
4. Lectures, with examples from Smith and Loney.

Group II.

5. *Synthetic Solid Geometry*.—One hour per week for the session.

Work as in Dupuis' *Synthetic Solid Geometry*.

6. *Calculus I*.—One hour per week during the session.

Synopsis of Work: Limits; functions; differential coefficient, and rules for finding it; tangents to curves; measurement of rates; implicit functions and partial derivatives; motion in curved paths; fundamental integrals; integration by parts; Euler's theorem on homogeneous functions; tangents and normals; pedal equations; asymptotes; successive differentiation; Leibnitz's theorem; differential equation; Taylor's and Maclaurin's series; maxima and minima; radius of curvature; evolute; definite integrals; areas, lengths of curves, volumes and surfaces.

7. *Spherical Trigonometry and Astronomy*.—One hour per week for the session.

Synopsis of Work: Three-faced corner and spheric triangle; polar triangle; limits of sides and angles; spherical excess; deduction of formula, cosine formula, sine formula, cotangent formula, geometric meaning of $\sin A \sin b \sin c$. Havre-sine formula; DeLambre's equations; Napier's analogies; solution of triangle; Napier's circular parts and applications, etc.

A spherical earth; mean radius; distances along a great circle, parallel of latitude, loxodrome; surveying a great circle, a parallel of latitude; projection of the sphere, stereographic, conical, globular, Mercator's; meridional parts.

A spheroidal earth; angle of the vertical; true radius vector.

Finding the meridian, latitude, time, etc.; solar, sidereal, and mean time, equation of time.

General descriptive and practical astronomy.

8. *Determinants and Theory of Equations*.—One hour a week for the first term.

Synopsis of Work: Determinants; matrices and their transformation; reciprocal determinants; skew and skew-symmetric determinants; circulants; continuants; various applications.

General equation and its graph; Descartes' rule of signs; symmetric functions; binomial equations; transformations; reciprocal equation; the cubic and the biquadratic; real and imaginary roots; solution of numerical equations; Horner's method of approximation; theorems of Fourier, Buden and Sturm; methods of elimination.

9. *Algebra II*.—One hour a week for the second term.

Synopsis of Work: Convergency of series; infinite products; limits of infinite series; summation; continued fractions, convergents and intermediate convergents; general continued fractions; indeterminate linear

and quadratic equations; theory of numbers; theorems of Fermat, Lagrange, and Wilson; probability, expectation, local probability, etc.

Books, etc.:—

5. Work as in Dupuis' Solid Synthetic Geometry.
6. Reference to Taylor, Gibson, Edwards, Van der Heyden.
7. Reference to Dupuis' and Matheson's Spheric Trigonometry, Barlow and Bryan's Mathematical Astronomy.
8. Reference to Weld's Determinants, Burnside and Panton's Theory of Equations.
9. Reference to Hall and Knight's Higher Algebra.

Groups III, IV.

10. *Analytic Solid Geometry*.—One hour per week during the session, every alternate year, 1909-10.

Synopsis of Work: Notation, direction, angles, etc.; oblique co-ordinates and ppd.; the line and the plane in space; conicoids to principal axes; generating lines and ruled surfaces; surfaces of revolution; tangent planes; curves of section; confocal conicoids; general equation and its transformations; rotation of axes; invariants; circular sections and umbilici; sections of the conicoids by a plane; axes and area of the section; curvature of surfaces; indicatrix, Meunier's theorem; study of tangent planes, tangent cone, normal planes, radius of curvature, etc., through partial derivatives; study of curves in space, Quetelet's theorem.

11. *Calculus II*.—One hour per week every alternate year, 1909-10.

Synopsis of Work: Partial differentials, n th differentials; Leibnitz's theorem; expansion of functions; various theorems; change of independent variable. Theory of plane curves; tangents, normals, etc.; intersection of curves; polars; pedals; tangentials; inverse curves; polar reciprocals; asymptotes; singular points, nodes, cusps, conjugate points, multiple points, etc.; order of contact; curvature; conic with 3rd order contact; envelopes; caustics; singular forms; max. and min., with two independent variables; LaGrange's criterion.

Integrable forms; hyperbolic functions; areas; lengths of curves, volumes and surfaces; double and triple integration; formulæ of reduction; Pappus' theorems; moment of inertia, etc.; definite integrals; beta and gamma functions.

12. *Differential Equations and Finite Differences*.—One hour per week for the session, every alternate year, 1909-10.

Synopsis of Work: Nature and origin of differential equations; equations of first order and degree; exact equations; integrating factors; geometrical interpretations; singular solutions; discriminants and special loci; equations of first order and higher degree; Clairaut's form; applications to geometry and physics; intrinsic equations; trajectories; equa-

tions of 2nd order; general linear equation with constant coefficients; operator $D+a$; symbolic methods; homogeneous linear equations; special cases; solution in series; simultaneous and partial differential equations.

Fundamental operation in finite differences; differences of the powers of zero; expansion in factorials; symbols of operation; Herschel's theorem; inverted Maclaurin's theorem; interpolation; LaGrange's formula; methods of approximation; mechanical quadrature; finite integration; exact summation of series; Euler-Maclaurin sum series; approximate summation; increase of convergency.

13. *Trigonometry II, and Quaternions*.—One hour per week, every alternate year, 1910-11.

Synopsis of Work: Series for n th powers of $\sin a$ and $\cos a$; De-Moivre's theorem; Argand's diagram and complex quantity; properties of V function; series for $\cos na$ and $\sin na$; roots of a complex; trigonometric functions expressed in series; series for circular functions; expansion in Bernoullian numbers; factorization of binomial of n dimensions, and of quadratic trinomial of $2n$ dimensions; sine and cosine in factor series; certain series; expansion in trigonometric series; summation of trigonometric series; numerous exercises.

Vectors; addition and subtraction of vectors; multiplication and division of vectors; the quaternion; quaternion analysis; 3 or more vectors; applications to line and plane, to circle and sphere, to ellipse and ellipsoid. Investigations of vector equations of tangents, normals, evolutes, tangent plane, tangent cone, etc.; numerous exercises.

14. *Conics II*.—One hour a week for first term and two hours a week for second term in alternate years, 1910-11.

Synopsis of Work: General equation and its parameters; transformations; diametral lines; conjugate diameters; rotation of axes; invariants and their meaning; intersecting chords; contact of conics; osculation; constructions for r ; evolute; trilinears and contracted methods; harmonic properties of triangle and quadrangle; triangles in perspective; trilinears of 2nd order; discussion of leading equations; harmonicism; inscribed and circumscribed conics; self-conjugate triangle; tangential co-ordinates; circular points at infinity; foci; conics having double contact; conics fulfilling certain conditions; Pascal's and Brianchon's theorems; contact and intersection of conics; anharmonic relations; degraded conics and rectilinear hyperbola; envelopes.

15. *Elementary Theory of Functions*.—One hour per week during the session, every alternate year, 1910-11.

Synopsis of Work.—Geometrical representation of complex numbers; fundamental operations; i , w , etc., as operators; linear transformations; invariant points; anharmonic ratios; the general rational transformation; the differential coefficient; monogenic functions; geometrical representation of

multiple-valued functions; the trigonometric, logarithmic, and exponential functions and transformations; stereographic projection; Mercator's projection; conformal representation; integration; holomorphic functions; Cauchy's theorems on integration, with various applications; convergence of complex series; Cauchy's extension to Maclaurin's and Taylor's theorems; various expansions; the power series; zeros and poles; singular points; meromorphic functions; Laurent's theorem, and applications; expansion of multiple-valued functions; Riemann's surfaces.

Books, etc.:—

10. Reference to Aldis, Smith, Salmon.
 11. Reference to Edwards' Diff. Calculus, Williamson's Integral Calculus.
 12. Reference to Johnson, Cohen.
 13. Reference to Lock's Higher Trigonometry, Kelland and Tait's quaternions.
 14. Reference to Salmon's Conics.
 15. Lectures. Reference to Harkness and Morley, Durège, Forsyth.
- Of Groups III and IV, 10, 11, 12 will be taken in session 1909-10.

Group I taken as a part of a Pass Course will count for Senior Mathematics and one of the optional subjects in courses I and II as given on page 61, provided that in the examination of this group the candidate makes at least 33 per cent. on each subject, and an average of 50 per cent. on the whole group.

Candidates for Honours must make a minimum of 40 per cent. upon each subject of Group I, and 60 per cent. upon the whole group, at one examination, after which no further examination on this group will be required.

Candidates for Honours must make at least 50 per cent. upon each of the subjects of Group II, and 60 per cent. upon the group, but honour standing will be determined by the examination on the subjects numbered 10, 11, 12, 13, 14, and 15.

The subjects of Groups II, III, and IV must be taken in not more than two examinations, and at any examination a candidate may offer any subject upon which he has failed at a previous examination. But 10, 11, 12, 13, 14 and 15 must be taken at the final examination.

Candidates are recommended to follow the order of subjects as indicated above, as nearly as may be practicable.

Extra-Mural Students.

The work for extra-mural students is the same as that for intra-murals, except in the matter of exercises.

The Mathematical Department has issued a book containing a very large number of exercises, covering the work of the Junior, Senior, and first Honour group of subjects, and to a considerable extent the work of the second Honour group. The extra-mural student must supply himself with a copy

of this book, which will be forwarded by the Registrar on receipt of \$1.00, and exercises will be mainly prescribed from it by giving section and number. The first exercise will be indicated about Oct. 15th, and thereafter every fortnight. Exercises prescribed before the middle of any month must be returned before the end of the month, and those prescribed after the middle must be returned not later than the middle of the next month.

Work on the exercises will be estimated according to the number successfully done.

PHYSICS.

PROFESSOR EMERITUS—D. H. Marshall, M.A., F.R.S.E.

PROFESSOR—Arthur L. Clark, Ph.D.

ASSISTANT PROFESSOR—W. C. Baker, M.A.

LECTURER—C. F. Lorenz, M.S.

DEMONSTRATORS—S. H. Henry, H. W. McKiel, B.A., W. P. Ferguson, M.A., W. J. Lamb, F. D. Wallace, W. A. Skirrow, R. W. Warwick.

JUNIOR CLASS.

Lectures and demonstrations are given in the following subjects; Dynamics and Properties of Matter, one hour per week; Heat and Light, one hour per week; Electricity, Magnetism and Sound, one hour per week.

Text-books: Porter's Intermediate Mechanics.

Millikan and Gale's First Course in Physics.

Carmichael's Physical Experiments.

Weekly exercises are given throughout the session.

A knowledge of Algebra, Geometry, and the rudiments of Trigonometry on the part of the student is assumed.

Students are required to spend two hours a week in the Laboratory doing experimental work. Hours for this purpose will be arranged as far as possible to suit the students.

SENIOR CLASS.

The work of this class is largely a continuation of that done in the Junior class.

Text-books: Carmichael's Physical Experiments and other books to be prescribed at the opening of the session.

Weekly exercises are given throughout the session.

Students are required to spend two hours a week in the Laboratory doing experimental work.

Students who are allowed to take the Senior Class without having attended the Junior are strongly recommended to attend the lectures of the Junior Class, especially those upon Heat, Light, Electricity, Magnetism and Sound. In the Junior Class the fundamental experiments in these subjects are shown and discussed, while in the Senior Class more attention is paid to the development of physical theory.

HONOURS.

Preliminary.

Students intending to complete the Honour Course in Physics are required to take the Preliminary Honour Class at the University.

Students should take Group I of Honour Mathematics before entering this class.

The work includes:

1. *Dynamics*, one hour per week.
2. *Hydrostatics and Light*, one hour per week.
3. *Heat*, Thermodynamics, one hour per week.
4. *Electricity and Magnetism*, one hour per week.
5. *Experimental work*, two hours per week.

Selected experiments illustrating the subjects treated in the lectures.

Besides the prescribed text-books students are expected to read sections from other books and articles from the Journals to which they are referred from time to time. These may be found in the Library of the Department.

Final.

Students intending to attend the Final Honour Lectures in Physics are advised to acquire a reading knowledge of French and German.

This class must be taken at the University. The work includes:

1. *Experimental work in the Laboratory.*

Honour students are expected to spend a large portion of their time in the Laboratory. In the first year their work will consist of a selected course of advanced experiments in Mechanics, Heat, Light, Sound, Magnetism and Electricity; in the second year, of a small number of more elaborate measurements intended to acquaint them with some of the methods and instruments used in modern research.

2. *An Elementary Course in Theoretical Mechanics.*
3. *An Advanced Course in Theoretical Mechanics.*
4. *Heat.* Kinetic Theory of Gases and Thermodynamics.
5. *Physical Optics.* Mathematical Theory of Selected Topics.
6. *Electricity and Magnetism.* Electric Waves, Conduction of Electricity through Gases, Radioactivity.

Lectures are given upon subjects 4 and 5, and upon 6 in alternate sessions. Subject 6 will be taken up in session 1909-10.

HONOUR EXPERIMENTAL PHYSICS.

This class must be taken at the University.

The work required under this title in Honour Course C (1) and Specialists' Course VIII (b) consists of:

1. The Laboratory work of the Preliminary and Final Honour Physics classes (omitting portions which involve advanced mathematical theory).
2. Selected parts (not requiring advanced mathematics) of the courses of lectures given in the Honour Classes.
3. Reading of prescribed articles from magazines and books relating to the experiments performed.

LIBRARY.

The principal Physical Journals and books relating to the Lectures and Laboratory work are kept in the Library of the Physics Department where they may be freely consulted by the students.

Extra-Mural Students.

Extra-mural students are expected to do the weekly exercises prescribed. They should also write to the Tutor stating what facilities, if any, they have for making experiments. Experiments will be prescribed to suit their circumstances as far as possible.

Under special circumstances, a limited amount of apparatus may be sent from the Laboratory upon conditions to be arranged.

JUNIOR CLASS.

A syllabus of the work stating the text-books required and the portions to be read with information about exercises, etc., will be sent to the students. The sections will be selected to correspond as far as possible with the work done by intra-mural students.

SENIOR CLASS.

A syllabus of the work stating the text-books required and the portions to be read, with other information, will be sent to the students.

PRELIMINARY HONOURS.

Taking this class extra-murally does not qualify a student to proceed to the Final Honour Class.

A syllabus of the work, stating the text-books required and the portions to be read, and the experiments to be performed, will be sent.

BOTANY.

PROFESSOR EMERITUS—Rev. James Fowler, M.A., LL.D.

PROFESSOR—W. T. MacClement, M.A., D.Sc.

TUTOR—A. B. Klugh.

Pass Class.

This course is designed to furnish an intelligent conception of the structure, life processes, and life relations of plants, for students who may pursue the subject no further. It also is a foundation for advanced work for those who desire to make Botany a special study. The work consists of lectures, discussions and laboratory experiments with plants and plant products. The principles of classification are studied from specimens of the chief orders of Canadian plants.

Lectures and Laboratory—10 a.m., Tuesday, Wednesday and Thursday.

Text-books:—Leavitt, Outlines of Botany.

Gray, Field, Forest and Garden Botany.

(These may be had bound together, Amer. Book Co.)

Coulter, Plant Relations (Appleton).

HONOUR BOTANY.

Preliminary Honours.

The work of this course is largely a laboratory study of the structure and the physiological processes of plants. Material, either fresh or preserved, illustrating the evolution of plant structures, is studied with the aid of dissecting and compound microscopes. Permanent records, in the form of ink drawings, are required. An experimental course in plant physiology is accompanied by lectures, discussions, and the study of prescribed texts.

Laboratory:—10-12, Monday, Wednesday and Friday.

Lectures:—11-12, Tuesday and Thursday.

Text-books:—Coulter, Plant Structures (Appleton).

Campbell, Evolution of Plants (Macmillan).

Atkinson, College Botany, Parts I and II (Holt & Co.).

Final Honours.

The subjects studied in this course are Plant Histology, Ecology, and Taxonomy. A practicable course in the preparation of acceptable mounts of the various vegetable structures accompanies a study of structural modification due to environment. Field studies during the autumn months are obligatory. The resources of the herbarium are adequate to a study of the important orders and genera.

Laboratory:—10-12, Monday, Wednesday and Friday.

Lectures:—11-12, Tuesday and Thursday.

Text-books:—Chamberlain, *Methods in Plant Histology*.
Atkinson, *College Botany*.
Gray's *New Manual of Botany*.
Grout, *Mosses with a hand lens*.

MEDICAL BOTANY.

This course will cover the following work:

1. Structure and Physiology of Seed Plants, including experimental demonstration of the facts of respiration, transpiration, osmosis, transfer of water, nutrition.
2. Morphology, evolution and classification of plants, use of analytical key, and study of representative forms.
3. Examination of local species of plant families important in medicine and toxicology.

Lectures and Laboratory—1 to 3, Tuesdays and Thursdays.

Text-books.—Bergen and Davis, *Principles of Botany*.
Coulter, *Plant Relations*.

ANIMAL BIOLOGY.

PROFESSOR—A. P. Knight, M.A., M.D.

LECTURER—F. Etherington, M.D., L.R.C.P. and S., Edin.

DEMONSTRATOR—I. G. Bogart, M.D.

Students in Medicine are required to take the class in elementary morphology.

Students in Arts who intend subsequently to study medicine are advised to take the pass and honour classes and thus complete their physiology and histology during their undergraduate course. Besides the special course for B.A., M.B., the honour course in Science, C, number 2 (with Animal Biology) page 66, or the specialists' course in Science, page 70, is suitable for this purpose. The course in sanitary science for the degree of B.Sc. in practical science, is also suitable for medical students.

Dr. C. K. Clarke, Medical Superintendent of the Toronto Hospital for the insane, will give a short course of lectures upon heredity and insanity in relation to crime and the treatment of the criminal.

ELEMENTARY MORPHOLOGY.

Lectures or demonstrations will be given tri-weekly at 9 a.m. during the session. Part I will last from October until Christmas and will treat of general Biology and the everyday lives of animals. Part II will deal with the outlines of classification and will cover the rest of the session. It will be

suitable for students taking the honour course in Geology or the course in Mining Engineering. Arts students must take parts I and II. Science students need take part II only.

The lectures treat of protoplasm, cells, cell division, reproduction, early stages of development, tissues, organs, differences between animals and plants, general view of the invertebrata and of vertebrata, organic evolution, everyday lives of animals.

The laboratory work consists of such dissections and demonstrations as will elucidate the subject of the lectures. The lectures are illustrated by diagrams, charts, and lantern transparencies.

Text-books: Comparative Zoology, by J. S. Kingsley (Henry Holt & Co.).

Animal Life, by Jordan and Kellogg (American Book Co.).

The senior leaving examination in biology of the Education Department is accepted in lieu of attendance and examination in this class.

Extra-Mural Students.

Extra-mural students are required to do the practical work outlined for Honour Matriculation in Zoology. They will be examined on Professor Ramsay Wright's *High School Zoology*.*

HONOURS.

Candidates who have not matriculated with honours in biology and who intend to take an honour course in the subject must take the Pass class in elementary morphology.

The course in comparative and practical anatomy extends over two years, and the work of each year is read in class every alternate session.

Preliminary honours are awarded on the honour papers of the first session in honours.

Final honours are awarded on the honour papers of both sessions taken together.

The lectures and demonstrations in physiology and histology are attended simultaneously by students in Medicine and by Honour students in Arts.

Honour students are required to attend the course of lectures on the "Development and Structure of the Nervous System" which is given to medical students in the department of human anatomy by Professor Etherington. The honour work in physiology for the second year lasts during the whole session.

The study of animal forms in the museum will be under the direction of Professor McClement. He will meet the class twice a week in the museum from the Christmas vacation until the end of the session.

Graduation in honours in the department of biology lessens, by one year, the length of the course required by the Medical Council of Ontario.

The practical examinations in honours in this department are held at the University only.

*The Histological specimens required for microscope study can be bought from Thomas Little, Laboratory Assistant, for \$2.00.

HONOURS.

Extra-Mural Students.

Extra-mural students can procure the necessary marine forms for dissection by ordering them from "The Supply Department, Marine Biological Station, Woodshole, Mass, U.S." The histological specimens required for microscope study, can be purchased from Thomas Little, Laboratory Assistant, Queen's University, at the rate of 25c. per slide, or \$4.00 for a complete set of fifty.

SESSION 1909-1910, 12 M. to 1 P.M.

Biology of Vertebrata.

Study of types of the different divisions of Vertebrata.

Histology and Embryology.

Physiology.

Daily Laboratory Work.

Dissections of the forms in Pratt's Vertebrate Zoology.

SESSION 1910-1911, 12 M. to 1 P.M.

Biology of Invertebrata.

Examination of typical specimens of the different classes.

Histology and Embryology.

Physiology.

Daily Laboratory Work.

Dissection of the forms in Pratt's Invertebrate Zoology.

Books for study and laboratory work:

Text-book of Physiology, 2 Vols., edited by E. A. Schafer, LL.D

Tigerstedt's Text-book of Physiology.

Halliburton's Hand-book of Physiology, last edition.

Claus and Sedgwick's, or J. Arthur Thompson's Zoology.

Weidersheim's Elements of Comparative Anatomy.

Foster and Langley's Histology, or Dr. Stirling's.

Balfour and Foster's Elements of Embryology.

Darwin's Origin of Species.

CHEMISTRY.

PROFESSOR—William L. Goodwin, D.Sc., Edin.

ASSISTANT PROFESSOR—John Waddell, B.A., D.Sc., Ph.D.

LECTURERS—C. W. Dickson, M.A., Ph.D.; W. O. Walker, M.A.;
W. P. Firth, M.A., D.Sc.; A. R. B. Williamson, M.A.,
M.D.; J. F. Sparks, B.A., M.D.

FELLOW—

DEMONSTRATORS—J. A. Kelso, W. P. Ferguson, C. W. Drury, R. V.
McCarley, F. C. Boyd, G. B. Kendrick.

JUNIOR CLASS.

Lectures: Monday and Tuesday at 11 a.m.

Laboratory: Wednesday at 11 a.m.

Chemical Species—Crystals and Crystallization—Chemical Change—Laws of Combination—Combining Weights—Relations of Heat to Chemical Changes—Notation—Equations—Nomenclature—Volume Relations of Gases in Chemical Change—Volume Formulæ—Molecular Weights—The Atomic Theory—Atomic Weights—Descriptive Chemistry of the Commoner Elements and their Compounds—The Periodic Law—Properties of Solutions—Electrolysis—Spectrum Analysis—Chemical Calculations.

Books: Alex. Smith's General Chemistry for Colleges (The Century Co., New York).

Waddell's Arithmetic of Chemistry (The Macmillan Company, New York), Chapters I-V.

SENIOR CLASS.

1. Organic Chemistry—Lecture on Thursday at 11 a.m. Laboratory at hours to be arranged.
2. Chemical Laws and Theories—Friday at 11 a.m.
3. Special Chemistry of the Metals, their occurrence in nature, reduction and uses—Lecture on Thursday at 8 a.m. Laboratory at hours to be arranged.

Books: Walker's Physical Chemistry, Fourth Ed. (Macmillan & Co., London), omitting Chaps. X, XI, XIII, XIV, XIX, XX, XXVI, XXVII, XXIX, XXX, and the mathematical parts of XXIII, XXIV and XXV.

Cohen's Theoretical Organic Chemistry (Macmillan & Co.).

Richter's Inorganic Chemistry, Chapters on Metals (P. Blakiston's Son & Co.).

A. W. Litherley's Laboratory Course in Organic Chemistry (Geo. Philip & Son, 32 Fleet St., London, Eng.).

Alex. Smith's General Inorganic Chemistry (or General Chemistry for Colleges), Chapters on Metals (The Century Co.).

Waddell's Arithmetic of Chemistry, Chap. VI to the end.

Students intending to proceed to Honours in Chemistry may begin Qualitative Analysis in the year in which they take senior Chemistry.

HONOURS.

Preliminary.

(May be taken as a Pass Class.)

1. Organic Chemistry.

The detailed study of selected groups of carbon compounds and their preparation in the Laboratory, including quantitative work. (1. Organic Chemistry of the Senior Class must be taken along with this, if not already taken. A knowledge of Nos. I, II and III of the Senior Class is required for Honours).

Wednesday, 2 to 5 p.m. Other hours to be arranged with class.

2. Industrial Chemistry (or *Physiological and Pathological Chemistry).

Monday and Thursday at 3 p.m.

3. Crystallography (Elementary). See Mineralogy (First Term).

4. Qualitative Analysis and Blowpiping.

5. Qualitative Analysis of Minerals, &c., or *Urinalysis, &c. (See Medical Calendar).

Students are required to complete the first 25 introductory exercises in Noyes' Qualitative Analysis, and to hand in their note-books for inspection. This must be done before beginning the analysis of unknown substances.

Books: Cohen's Practical Organic Chemistry for Advanced Students (MacMillan & Co., London).

Simon's Physiological Chemistry (Lea Brothers & Co., Philadelphia).

Williams' Crystallography (Henry Holt & Co.).

Arthur A. Noyes' Qualitative Analysis (The MacMillan Co., New York).

Thorp's Industrial Chemistry (The Macmillan Co., New York).

Treadwell's Analytical Chemistry, Vol. I, Qualitative Analysis, Translated by Hall; (Wiley & Sons).

Simon's Manual of Chemistry (Lea Brothers & Co., Philadelphia).

*This option is for students who intend to take a course in Medicine.

Syllabus of Industrial Chemistry.

Lixiviation, Levigation, Evaporation, Distillation, Sublimation, Filtration, Crystallization, Calcination, Refrigeration, Density, Water, Sulphur, Sulphuric Acid, Salt, Hydrochloric Acid and Sodium Sulphate, Soda, Chlorine, Fertilizers, Lime, Cement, and Plaster of Paris, Phosphorus, Arsenic Compounds, Sulphates, Pigments, Petroleum.

Nitric Acid, Ammonia, Potash, Glass, Ceramics, Bromine, Iodine, Water Glass, Peroxides, Oxygen, Cyanides, Carbon Bi-sulphide, Carbon Tetrachloride, Manganates and Permanganates, Destructive Distillation of Wood, Illuminating Gas, Coal Tar, Vegetable and Animal Oils, Soap, Candles, Glycerine, Starch, Dextrine and Glucose, Cane Sugar, Fermentation Industries, Explosives, Textile Industries (Bleaching and Dyeing), Paper.

Final.

6. Physical Chemistry: Kinetic Theory of Gases; Properties of Solutions: The Periodic Law; Thermochemistry; Electrochemistry; Photochemistry.

Tuesday at 9 a.m., and Friday from 8 to 10 a.m. (Laboratory).

7. History of Chemistry.

Tuesday at 3 p.m. (Second Term).

8. Quantitative Analysis.

9. Assaying.

Subjects (1), (2) and (3) must be taken at one examination, but may be taken without (4) and (5).

Subjects (6) and (7) must be taken at one examination, but may be taken without (8) and (9).

Books: Walker's Physical Chemistry (Macmillan & Co.).

Ostwald's General Chemistry (Macmillan & Co.).

Meyer's Modern Theories of Chemistry.

Ladenburg's History of Chemistry (W. F. Clay, Edinburgh).

Ida Freund's Study of Chemical Composition.

Rodwell's Birth of Chemistry (Macmillan & Co.).

Bolton's Quantitative Analysis (J. Wiley & Sons).

Furman's Manual of Assaying (J. Wiley & Sons).

Waddell's Arithmetic of Chemistry (The Macmillan Co.).

Syllabus of Quantitative Analysis and Assaying.

1. Barium Chloride—Ba, Cl, H_2O .
2. Magnesium Sulphate—Mg O.
3. An Ammonium Salt— NH_3 .
4. Phosphate— P_2O_5 .

5. Dolomite— CaO , MgO , SiO_2 , Fe_2O_3 , CO_2 .
6. Coal—water, volatile matter, fixed carbon, ash.
7. Bleaching Powder—available chlorine.
8. Iron Ore—qualitative analysis; determination of Fe , SiO_2 , S .
9. Pig iron— Si , P , Mn , C .
10. Zinc Ore— Zn .
11. Lead Ore— Pb .
12. Copper Ore— Cu by electrolytic and cyanide methods.
13. Nickel Ore— Ni by electrolytic methods.
14. Silver Coin— Ag by Cupellation.
15. Pig Lead— Ag and Au .
16. Gold and Silver Ores— Au and Ag by pot assay.
17. Silver Ore— Ag by blowpipe assay.
18. Barite— BaO , SrO , SO_3 .
19. Bronze— Cu , Sn , Zn .
20. Alkalimetry—
21. Acidimetry—
22. Chrome iron ore— Cr_2O_3 .
23. Feldspar— SiO_2 , Al_2O_3 , CaO , MgO , K_2O , Na_2O .
24. Titaniferous Iron Ore— TiO_2 , Fe , SiO_2 , S , P , MnO , CaO , MgO .
25. Arsenopyrite— As .

For Extra-Mural Students.

Extra-mural students are required to do promptly the work set by the Tutor and will not be admitted to examination until this work is completed.

JUNIOR.

Books to be read:

- Alex. Smith's General Chemistry for Colleges (The Century Co., New York).
- Waddell's Arithmetic of Chemistry (The Macmillan Co., New York), Chapters I-IV.

SENIOR.

Books to be read:

- Walker's Physical Chemistry (Macmillan & Co., London).
- Waddell's Arithmetic of Chemistry, Chap. VI to end.
- Cohen's Theoretical Organic Chemistry (Macmillan & Co.).
- Alex. Smith's General Inorganic Chemistry (The Century Co., New York).

The work in *Cohen* and *Smith* is to be selected under the guidance of the Tutor.

For Students in Medicine.

First Year.

Monday at 2 p.m.; Wednesday at 11 a.m.; Thursday, 11 a.m. to 12.30 p.m.

Second Year.

ORGANIC CHEMISTRY.

Friday, at 9 a.m.

ANALYTICAL CHEMISTRY, ETC.

N.B.—Before taking this class students must pass the examination in Junior Chemistry (First Year).

1. Physiological Chemistry—Thursday and Friday, 8 a.m. to 9 a.m. throughout the session.
2. Qualitative Analysis—Saturday, 10 a.m. to 12 a.m.—First Term.
3. Chemical Toxicology—Saturday, 10 a.m. to 11 a.m.—Second Term.
4. Urinalysis—Monday, 8.00 a.m. to 9.00 a.m., throughout the session.

Books: Waddell's Arithmetic of Chemistry.

Simon's Manual of Chemistry (Lea Brothers & Co., Philadelphia).

Junior, Senior and Preliminary Honours of the Arts course cover all the Chemistry required of students of Medicine.

MINERALOGY.

(Ontario Hall, third floor.)

PROFESSOR—William Nicol, M.A.

FELLOW—B. R. McKay, B.Sc.

For Intra-Mural Students.

Students in Mineralogy are expected to take part in the field excursions held during the Fall Term. Excursions are taken every Saturday, weather permitting, and on Saturdays when excursions cannot be taken, demonstrations in the museum will be given. The cost of the field work will not exceed five dollars.

Pass and Preliminary Honours may be taken in one year by students in Honours.

Students intending to take Mineralogy are advised to take Junior Chemistry and Junior Physics before commencing it.

Each student in this department is supplied with a locked cabinet containing about 100 mineral specimens for which a cash deposit of ten dollars must be made and a receipt given, and an agreement made to return the minerals at the close of the session.

One of the rooms in connection with the Department of Mineralogy has been furnished as a study and consulting room for students in this department. The Professor or his assistant will be available for consultation at hours when classes are not being held. Systematic and illustrative collections of minerals, crystals and models are on exhibition.

The Department is furnished with a first-class lantern and projection apparatus.

Books from the Library of the Department of Mineralogy and from the Professor's private library may be obtained by application to the Professor.

MINERALOGY I.

Pass.

1. Elementary Mineralogy. Demonstrations with specimens and the lantern.
2. Description and determination of the following minerals:

Diamond, graphite, native arsenic, native silver, native gold, native copper, stibnite, molybdenite, cinnabar, galenite, chalcocite, malachite, azurite, sphalerite, niccolite, smaltite, chloanthite, pyrrhotite, bornite, chalcopyrite, pyrite, marcasite, arsenopyrite, halite, fluorite, quartz and prisms, corundum, hæmatite, magnetite, chromite, pyrolusite, psilomelane, limonite, calcite, dolomite, siderite, orthoclase, plagioclase, pyroxene and vars, olivine, amphibole and vars, garnet, tourmaline, nepheline, sodalite, stilbite, analcite, natrolite, muscovite, biotite, phlogopite, chlorite, serpentine, talc, sphene, scapolite, beryl, epidote, zircon, staurolite, apatite, barite, celestite, gypsum, coal and vars.

Text-book: *Miller's Minerals and How They Occur.

The class meets in the Mineralogy lecture-room, Ontario Hall, at 11 a.m., on Mondays.

3. Elementary Crystallography.

A course of about fifteen demonstrations given at the opening of the session.

Text-book: *Williams' Crystallography (Henry Holt & Co.).

4. Blowpipe Analysis—(a) A course of practical demonstrations to illustrate and explain the reactions in studying the chemical properties of minerals. (b) A practical class in which the experiments seen in the lectures are performed by the students.

Text-book: *Brush & Penfield's Determinative Mineralogy and Blowpipe Analysis, 1905.

Books for Reference:

Cornwall's Translation of Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe, 7th Ed. (Van Nostrand Co.).

Cornwall's Manual of Blowpipe Analysis (Van Nostrand Co.).

Landauer's Blowpipe Analysis.

Endlich's Manual of Qualitative Blowpipe Analysis.

Moses & Parsons' Mineralogy, Crystallography and Blowpipe Analysis, 2nd Ed.

Students must supply their own blowpipe apparatus.

The class meets in the blowpipe lecture-room, Ontario Hall, on Friday afternoons, from 2 to 4 o'clock.

HONOURS.

Preliminary.

(A knowledge of French and German is desirable.)

1. Systematic Mineralogy, illustrated by specimens, charts, lantern-slides, etc., Tuesday and Wednesday, 11 a.m., and Practical Class at hours convenient for members.

Text-book: Dana's Text-book of Mineralogy, 1907 (Wiley & Sons).

Books for Reference:

Moses' Characters of crystals, 1899.

Miers' Mineralogy (Macmillan & Co.).

Van Horn's General and Special Mineralogy.

Naumann-Zirkel's *Mineralogie*.

Tschermak's *Mineralogie*.

} In Library.

2. Practical Crystallography.

Practical study of crystal forms by means of crystals, and wire and wooden models. Two demonstrations per week are given at hours to suit the members of the class.

3. Qualitative analysis of minerals by blowpipe and wet re-agents:—The course in Qualitative Analysis in connection with Preliminary Honour Chemistry and, in addition, the analysis of selected mineral samples to be secured by the students individually from the Professor. Written reports of these must be handed in.

Lectures on Qualitative Analysis.

Text-book: Fresenius' Qualitative Analysis.

Books for Reference:

Ostwald's Foundations of Analytical Chemistry (Macmillan & Co.).

Menschutkin's Analytical Chemistry (Macmillan & Co.).

4. Essays on prescribed subjects.
5. Lecturettes by the individual members to the class.

Final.

1. Descriptive Mineralogy.

Description and classification of the commonly occurring minerals, special attention being given to Canadian ores and rock-forming minerals.

Study hours are arranged to suit members of class. Attendance compulsory. Tuesday, 8 a.m.

Text-book: Dana's System of Mineralogy, 6th Ed. (Wiley & Sons).

Books for Reference:

Chapman's Minerals and Geology of Ontario and Quebec, 3rd Ed. (Copp Clark Co.) (Library).

Commissioners' Report on Mineral Resources of Ontario, 1890. (Library).

Reports of Geological Survey. New series, 1885-1908. (Library).

Reports of Bureau of Mines. (Library.)

Foote's Catalogue of Minerals. (Library.)

2. Determinative Mineralogy.

Practical instruction in the determination of minerals by means of the blowpipe and by field tests. Tuesday, 1-3 p.m.

Examination of specimens from cabinets. Wednesday and Thursday, 1 p.m. Attendance compulsory.

Text-books: Brush & Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (1905).

Crosby's Tables for the Determination of Common Minerals.

Eakle's Mineral Tables.

3. Quantitative Analysis of Minerals (selected samples).

Text-book: Fresenius' Quantitative Analysis.

Lectures on Quantitative Analysis.

4. Economic Geology. (See under *Geology*.)

5. Petrography. (See under *Geology*.)

6. The use of heavy solutions in separating minerals for rock analysis.

7. Use of Contact and Reflecting Goniometer.

8. Drawing Crystals from Goniometric Measurements.

9. Courses of lectures on Economic Mineralogy and History of Mineralogy.

These lectures will be illustrated by lantern-slides, and will be delivered at hours convenient for the members of the class. Wednesday, 8 a.m.

10. A series of demonstrations with compound microscope to show the beautiful and interesting phenomena of microscopic mineral mounts in reflected light.

11. Essays to be handed in as follows:

Oct. 15, 1909—Mineralogy among the Greeks and Romans.

Oct. 30, 1909—Three Modern Mineralogists.

Nov. 15, 1909—The Diamond.

Nov. 30, 1909—Graphite and its uses.

Dec. 20, 1909—Dana's Principles of Classification.

Jan. 30, 1910—Quartz as a *mineral* and as a *precious stone*.

Feb. 28, 1910—The composition of the silicates.

Mar. 15, 1910—Gypsum in Ontario and the Gypsum Industry.

Books for Reference:

The Mineral Industry. (Library, Geol. department).
Reports of Bureau of Mines, 1891-1909 (Library).
Transactions of Canadian Mining Institute.
American Journal of Science. (Library).
Wilmott's *Mineral Wealth of Canada*. (Library).

Books for Reading:

Hugh Miller's Works.
Lyell's Principles of Geology.

The Professor reserves the right to retain essays of merit for use in the library of the department.

For Extra-Mural Students.

Examinations are held *only* at the University.

In addition to essays and correspondence, extra-mural students are required to determine and describe the minerals in collections furnished by the lecturer.

For extra-mural students a collection of wooden crystal models may be obtained for two weeks by depositing five dollars with the Registrar, to be refunded when the models are returned. Application must be made early in the session for this collection so that it may be sent in turn to students.

Students Pay Express Charges.

A collection of rocks, minerals and fossils for illustrating Miller's "Minerals and How They Occur" will be sent by express to each extra-mural student as soon as the deposit of ten dollars has been made with the Registrar. This collection must be returned at the close of the session, when the deposit will be returned, less breakage and loss, if any. Express charges must be paid by students.

Text-books indicated by a star in the foregoing lists and a set of blow-pipe apparatus *must* be secured by the students.

Uglove & Co., Booksellers, Princess St., Kingston, will supply necessary books. The Registrar of the University will supply apparatus at cost price.

The lecturer in Mineralogy will send directions and material for blow-pipe work as soon as students have registered. Reports of progress must be made periodically to the lecturer. The examination held in April at the University only, is largely practical, and for this examination students must bring with them the apparatus used by them during the session.

GEOLOGY.

PROFESSOR—

LECTURERS—M. B. Baker, B.A., B.Sc., and R. E. Hore, B.A.

Students taking work in this department have access to the Geological and Mineralogical museum of Queen's University and the School of Mining, and to the Geological library and reading room.

The petrographical laboratory is supplied with electric power, diamond saws and other apparatus required in the preparation of thin sections of rocks and minerals for examination under the microscope.

The microscope room is provided with several instruments of the latest and most approved designs.

The chemical laboratory in connection with the Geological Department is supplied with the necessary equipment for the chemical investigation of rocks.

Pass.

(Students taking Geology, who have not or are not taking Pass Mineralogy, are required to attend the brief course of lectures on minerals delivered specially for Geology students at the beginning of the fall term.)

The following themes will be treated of in the lectures: The planetary relations of the earth; the atmosphere; water; solid crust; probable nature of the earth's interior; rocks; their general megascopic and microscopic characters and classification; volcanic action; earthquakes; upheaval; subsidence; geological effects produced by heat, air, water and life; bosses; dykes; veins; stratification; dip; strike; anticline and syncline; faults; foliation; nature and uses of fossils; stratigraphical geology; outline of geological history, with a few of the chief fossils of each geological period.

The lectures are illustrated by means of maps, diagrams and lantern views.

The laboratory work will consist of the examination of typical specimens of the different groups of fossil plants and animals, and of hand specimens of the more common rocks.

During the months of October and November excursions will be made to places of geological interest in the vicinity of Kingston. All students must join these excursions. The cost will not exceed five dollars.

Essays required on prescribed subjects.

Students are required to provide themselves with some elementary book on the subject. W. B. Scott's "Introduction to Geology," 2nd edition (the MacMillan Co., price \$2.60) is recommended.

Books for Reference:

Dana's Manual of Geology.

Le Conte's Elements of Geology (5th Ed. by H. E. Fairchild).

Chapman's Minerals and Geology of Central Canada.

Kemp's Hand-book of Rocks.

Extra-mural students are advised to read Le Conte's Elements of Geology (5th edition) or, Geikie's class-book of Geology (4th edition) and Norton's Elements of Geology (Ginn & Co.) They will also be required to write essays on prescribed subjects.

Students who are not taking Mineralogy are advised to pay particular attention to Chapter I of Scott's Geology, and to provide themselves with a collection of the principal rock-forming minerals.

HONOURS.

Preliminary.

(Students taking Preliminary Honour Geology are required to have taken Crystallography, and Mineralogy I.)

Lectures on:

Physical Geography, Petrography and Palæontology, Economic Geology, and general Geology.

The laboratory work will consist of the preparation of thin sections of minerals and rocks, and the microscopic determination of plutonic, dyke, and volcanic rocks.

The museum work will consist of the megascopic determination of rocks and the naming and classification of Canadian fossils.

Field work comprises observations upon weathering of rocks, shore phenomena; glacial phenomena; igneous; sedimentary and metamorphic rocks; faulting, folds; joints; cleavage. Practice in geological mapping and construction of sections; measuring the thickness of strata and determining the relative ages of geological structures. Essays are required on prescribed subjects. Candidates will also be examined on the following:

Davis', Page's or Geikie's Physical Geography.
Chapman's Minerals and Geology of Central Canada, Part IV.
Geology, Vol. I, Chamberlain and Salisbury.
Luquer's Minerals in Rock Sections.
Kemp's Hand-book of Rocks.

Books for Reference:

Wood's Elementary Palæontology.
Harker's Petrology for Students.
Text-book of Palæontology,—Zittel.
Manual of Palæontology,—Nicholson.
Dana's Text-book of Mineralogy.
Cole's Aids in Practical Geology.
Nature of Ore Deposits, Beck (Weed's Translation).
Ore Deposits, Kemp.
Reports of the Geological Survey of Canada and the United States.

Students are advised to devote as much time as possible to field work during the preceding long vacation, and to collect material for study in the laboratory during the winter. Opportunities are usually afforded advanced students for engaging in field work during the summer vacation.

Final.

Lectures on:

Economic Geology.
Petrography.
Palæontology.
Geology of Canada.
Geology in its relations to Mining and Agriculture.
Construction of Geological Maps and Sections.
Laboratory, Museum and Field work.

Candidates will also be examined on the following:

Chamberlain and Salisbury's Geology, Vols. I, II, and III.
Geikie's Text-book of Geology (4th Edition).
Geikie's Field Geology.
Chapman's Minerals and Geology of Central Canada, Parts IV and V.
Dawson's Hand-book of Canadian Geology.
Geikie's Founders of Geology.
Zittel's History of Geology.
Branner & Newson's Syllabus of Economic Geology.
Kemp's Ore Deposits of the United States and Canada.

Books for Reference:

Rosenbusch's Elements der Gesteinslehre.
Rosenbusch's Microscopical Physiography of Rock-forming Minerals.
Zirkel's *Petrographie*, Vols. I, II and III.
Harker's Petrology for Students.
Nicholson's Palæontology. (Eastman.)
Zittel's Text of Palæontology. (Eastman.)
Williams' Geological Biology.
Dawson's Ice Age in Canada.
Wright's Ice Age in North America.
Phillips' Ore Deposits.
Beck's Lehre von den Erzlagertstätten.

Students are advised not to undertake the work in Final Honour Geology until they have acquired a sufficient knowledge of Chemistry and Mineralogy. They should be prepared to devote a large part of their time to the subject throughout the session. Each member of the class will be encouraged to undertake research work, for which the surrounding district offers exceptional opportunities.

Extra-Mural.

A corresponding tutor is engaged to communicate with extra-mural students take Pass Geology. (See also p. 57.)

The work in Honour Geology being largely of a practical nature, must be taken intra-murally.

ART. XI—POST-GRADUATE DEGREES.

DOCTOR OF LAWS (LL.D.)

This degree is honorary, and is awarded for literary, scientific or professional distinction.

DEGREE OF DOCTOR OF PHILOSOPHY (PH.D.) AND DOCTOR OF SCIENCE (D.Sc.)

1. Candidates for these degrees must comply with one of the following conditions:

(a) If they offer themselves for the degree of Ph.D. or D.Sc. in any two of the Arts subjects, they must previously have taken the degree of M.A. in these subjects, or must satisfy the Senate of their ability to proceed with the course.

(b) If they offer themselves for the degree of Ph.D. in one of the Arts subjects and either Old Testament Language and Literature or New Testament Language and Literature they must have previously obtained the degree of M.A. or B.A. with first-class honours in the Arts subjects chosen, have completed their course in Theology, and have passed the examination in half of the course for B.D.

(c) If they offer themselves for the degree of Ph.D. in Old Testament Language and Literature and New Testament Language and Literature they must have previously taken an Arts degree and the degree of B.D.

2. Neither of these degrees can be obtained in less time than three years after the above conditions have been complied with.

3. Candidates must submit a thesis on some subject connected with their special course embodying the results of original investigation.

4. Candidates for these degrees must make application through the Registrar to the Senate to be allowed to proceed with the course, stating the subjects they wish to offer, and must register either as an intra or extra-mural student each session in which work is taken. For fees of intra-mural students see page 23, for extra-mural, 58. Extra-mural students in addition to the registration fee must pay a tutorial fee of \$5 per session for each subject.

I. DEGREE OF PH.D.

LATIN.

The Ph.D. course in Latin is a continuation of the Honours work, but is more specialised and involves a more detailed use of original authorities. Papers will be set in the following subjects:—

- (1) Composition.
- (2) Translation at Sight.
- (3) Roman History from 133 B.C. to 117 A.D.
- (4) Latin Literature.
- (5) *One of the following:—*
 - (a) A special period or department of Latin literature studied in connection with original authorities.
 - (b) A special period or department of Roman history studied in connection with original authorities.
 - (c) Latin Palæography and Textual Criticism, with a special critical study of Plautus, *Rudens* and *Captivi*, and Lucan V., VII.
 - (d) Roman Archæology.
 - (e) The Italic Dialects and the History of the Latin Language.

All intending candidates should consult the Professor, who will be glad to give all necessary information and advice.

GREEK.

The Ph.D. work in Greek is a continuation of the Honour course. Papers will be set on selected books and candidates will be tested on translation at sight and Greek prose composition. A knowledge of Greek history in the fifth century B.C., based on the original authorities, Herodotus, Thucydides and Xenophon's *Hellenics*, I and II, will be required. One of the following subjects is also included:

- Comparative Philology.
- Archæology.
- Palæology (with Epigraphy).

GERMAN.

For the degree of Doctor of Philosophy in German there will be required:

1. A general knowledge of the history of the literature.
2. A general knowledge of the history of the language.
3. Accuracy and facility in writing and speaking German.

4. An intimate acquaintance with Gothic, Old High German and Middle High German Texts.
5. An intimate knowledge of the literary works of Lessing, Goethe and Schiller.
6. An intimate knowledge of any representative author of the 19th century since the death of Goethe.
7. A dissertation in German on a literary or linguistic subject, showing originality of treatment.
8. A minute acquaintance with the history of the literature of the period within which the dissertation lies.

ROMANCE LANGUAGES.

The Ph.D. work is meant to be a continuation, along broader lines, of the Honour work. Besides the Thesis, papers will be set testing the candidate's ability to translate unseen passages and to write French Prose, as well as his knowledge of the following set subjects:

1. The History of the French Literature, during any three of the following periods:
 - (a) Till the end of the 15th Century.
 - (b) The Age of Glory.
 - (c) The 18th Century taken especially in connection with the social and political conditions of the country.
 - (d) The 19th Century.
2. Certain prescribed authors.
3. The Philology of the Language.
4. Italian *or* the Comparative Philology of the Romance Languages.

For further information consult the current Calendar and write to Professor Campbell.

ENGLISH LANGUAGE AND LITERATURE.

Candidates offering this subject will communicate with Prof. Cappon.

HISTORY.

Candidates will communicate with the Professor of History. For their guidance it may be mentioned that the following subjects will be required:—

- (1). A knowledge of British History from 449 to 1900. Special attention will be given to constitutional developments, and, after 1603, the history will be illustrated from certain selected contemporary historians such as Clarendon, Burnet, Walpole.
- (2). Some period of European History. This section will involve a knowledge of Italian French, or German.

(3). British Colonial History and Policy. Candidates will select some special phase of policy, or region of colonization, in addition to the more general study of the subject.

(4). Candidates are advised, that, as the theses must show evidence of actual first-hand work, subjects drawn from Canadian History, and which may be worked for in the Canadian archives, will be favourably regarded.

Detailed information will be gladly furnished by the Professor in this department.

MENTAL AND MORAL PHILOSOPHY.

I. General Course.

(A) PHILOSOPHICAL SYSTEMS.

Candidates are allowed the following options:

1. They may offer any *four* of the following books:—

Plato: *Theætetus*, *Republic*, *Sophist*.

Aristotle: *Organon* (Selections of Oxford Press), *Metaphysics* (Selections), *De Anima*, *Nicomachean Ethics*, *Politics*, *Poetics*.

Kant: *Kritik der reinen Vernunft*, *Kritik der praktischen Vernunft*, *Kritik der Urtheilskraft*.

Hegel: *Encyclopädie*, I and III, *Wissenschaft der Logik*, any two books, *Phänomenologie des Geistes*, *Philosophie des Rechts*, *Philosophie der Religion*.

Ability to translate the books offered is presumed.

2. They may offer any *two* of the above books, together with either (a) the works of any *one* of the following authors: Rousseau, Comte, Schopenhauer, Lotze, Hartmann, John Stuart Mill, Herbert Spencer, T. H. Green, Henry Sidgwick, Edward Caird, F. H. Bradley, or (b) one of the sections under B.

3. They must offer (1) any *two* of the authors mentioned above in Section 2 (a), or (2) one of these authors, together with *one* of the sections under B.

4. Candidates who take the examination for Ph.D. in Latin, Greek, French, German, English, History or Political Science, may offer either (1) any *two* of the books mentioned above in Section 1, or (2) the works of any *one* of the authors mentioned in Section 2 (a), or (3) one of the sections under B.

Acquaintance with the best recent criticism is in all cases required.

(B) PRINCIPLES OF PHILOSOPHY.

The following branches of Philosophy may form part of the work offered by candidates. See A., Sections 2, 3 and 4) :

1. The principles of logic. References: The logical treatises of Hegel, Mill, Jevons, Venn, Lotze, Sigwart, Bradley, Bosanquet and Joseph.

2. The Principles of Psychology. References: The psychological works of James Mill, J. S. Mill, Bain, Wundt, Sully, Ladd, James, Adamson, Lotze and Stout.

3. The Principles of Ethics. References: The ethical works of J. S. Mill, Bain, Sidgwick, Green, Bradley, Spencer, Stephen, Martineau and Caird.

4. The Principles of Aesthetics. References: The aesthetic treatises of Aristotle, Kant, Schiller, Lessing, Hegel, Lotze, Schaller, and Ruskin.

POLITICAL SCIENCE.

Candidates offering this subject will communicate with Professor Skelton.

The Degree of Ph.D. in Old and New Testament Language and Literature.

1. Candidates must take note that the amount and quality of the work demanded for this degree will, in the judgment of the Faculty, require three years' post-graduate work at the University, or six years' extra-mural work.

2. Candidates are required to present a thesis in *one* of this trio departments of this course, on a subject suitable for original research and approved by the Professors of the department.

Old Testament Language and Literature.

The candidate will be required to show to the Examiners, by means of critical essays and examination papers, that he possesses comprehensive and accurate knowledge in the following departments:

(1) Languages; Hebrew and Aramaic.

(2) History; the history of Israel to the year 141 B.C. Outline of the history of Egypt and Babylon, in so far as these bear on the history of Israel.

(3) Literature; the contents and character of the books of the O. T. and of the following books:—Ecclesiasticus, Maccabees, I and II; Esdras, I and II; Baruch, Tobit, the additions to Daniel.

(4) O. T. Theology or history of the Hebrew religion down to 141 B.C.

(5) Criticism, textual, literary and historical. In this department papers will be set on books, or portions of books, representing all classes of Hebrew Literature, historical, poetic, prophetic, etc. The quantity of this work will be arranged with each candidate after consultation with the Professors involved in his course. A list of books and suggestions as to methods of work may be had on application to Prof. W. G. Jordan.

New Testament Language and Literature.

The candidate must give evidence by means of critical essays and examination papers, that he possesses comprehensive and accurate knowledge in the following departments:

(1) The Language of the Greek New Testament.

(2) History; Jewish and General History from the time of Alexander the Great to the end of the first century.

(3) Literature; the Literature of the later Judaism, Palestinian and Alexandrian.

(4) Theology; the Theology of the entire New Testament.

(5) Criticism and Exegesis; textual, literary and historical criticism. In this department certain books of the New Testament will be selected for special study.

Candidates will communicate with the Professors for detailed information regarding the books required for Sections 1, 3, 4 and 5.

II. DEGREE OF D.Sc.

I. Course for the Degree of D.Sc. in Chemistry, Mineralogy, Botany and Geology.

Candidates are required to have a thorough knowledge, practical and theoretical, of the subjects in one of the following divisions:

1. Chemistry—one of the following groups:

- A. Inorganic Chemistry.
Chemistry in its relations to Mineralogy.
Inorganic Analysis and Assaying.
- B. Organic Chemistry.
Chemistry in its relation to Biology.
Organic Analysis.
- C. General Chemistry, including Chemical Theory.

2. Mineralogy.

- (1) Systematic Mineralogy.
- (2) Mineralogy in its relation to Chemistry and Geology.
- (3) Petrography.
- (4) Ore Deposits.
- (5) Determinative Mineralogy.
- (6) Assaying.
- (7) Economic Mineralogy of Canada.

3. Biology.

Comparative Anatomy and Physiology, Chemistry of Ferments, Bacteriology, with either of the following groups:

- I. (1) Research in Vegetable Morphology or Physiology.
(2) A practical acquaintance with the Cryptogamic Flora of Canada.
- II. (1) Animal Physiology and Embryology.
(2) Osteology and Odontography of Vertebrates.
(3) Special Study of Invertebrates (Canadian).
(4) Physiological Chemistry.

A thesis containing original work done in one of these subjects.

4. Geology.

Standing equivalent to Preliminary Honours in Chemistry and Mineralogy will be required of candidates in this department.

Either of the following groups may be chosen by a candidate as his *chief subject*, and he will be required to take the other group as a *subordinate subject*:

- (1) Dynamical Geology and Petrography.
- (2) Stratigraphical Geology and Palæontology.

The candidate will be expected to show an acquaintance with his subordinate subject equivalent to Honours in the undergraduate course. An intimate knowledge of the chief subject must be shown.

Detailed information to be obtained from the Professors.

FACULTY OF THEOLOGY.

(I) General Announcement.

The course in Theology extends over three sessions of six months each, and embraces the following subjects of study : Apologetics, two sessions ; Systematic Theology, Old and New Testament Criticism and Exegesis, Church History, each three sessions ; Homiletics and Pastoral Theology, each one session. Junior Hebrew and Senior Hebrew, each one session. for those who have not included them in their Arts course.

2. The student who desires to enter upon the study of Theology must be a graduate of this University or of a University whose degrees are recognized by the Senate ; or he must have completed three years of a university course, as enjoined by the General Assembly.

3. Students are expected to have passed the Junior Hebrew class, and are recommended to take a full course in Arts, and to obtain a degree, before entering upon the study of Theology.

An Arts course, as here recognized, must embrace the study of Greek.

4. Students on entering Theology, or on intimating their purpose to study for the ministry, must be in full communion with the Church ; and all such students are required, during their course, to be in communion with a congregation of the Church in Kingston.

5. At the beginning of each session each student must present a certificate to the Secretary of the Faculty from the Presbytery within whose bounds he has resided during the summer vacation ; and at the close of each session he shall, at the earliest opportunity, present his certificate to the Presbytery within whose bounds he purposes to reside.

6. Testamurs in Theology are given to students who have passed the sessional examinations on all the subjects prescribed by the General Assembly for students for the ministry.

7. Pass and B.D. examinations are held annually in April and October, and supplementary examinations only in October.

8. For further information see Blue Book of the Church, or apply to Rev. Dr. Ross, Dean of the Faculty.

(2) *Matriculation.*

Matriculation examinations begin on Monday, Oct. 25th. Candidates must give notice to the Secretary of the Faculty before Oct. 5th, accompanied by a Presbyterian certificate.

Subjects of Examination:

Examination papers will be set in the following departments:

1. The Shorter Catechism and the contents of the Gospel of Mark and the Epistle to the Romans, in English.
2. Acts of the Apostles, I-XII in Greek, Dods' Introduction, 76-151.
3. HEBREW—The Article, Pronouns, Inseparable Particles, the Qal of Regular Verb, Grammatical Analysis, Ps. 1, I Sam. IX.
ENGLISH—Amos I, VII, Hos. I-II, Isaiah I, VI, VII, Micah I-III, Jordan's Prophetic Ideas and Ideals, pp. 108.
4. The Acts of the Apostles in the R. V., and Bartlet's Early Church History, pp. 1-66.

One paper will be set in each department.

I.—SYSTEMATIC THEOLOGY.

PROFESSOR—Principal Gordon.

The course in this class extends over three sessions. Lectures will be given during session 1909-10, on:

The Person and Ministry of our Lord. The Atonement.
The work of the Holy Spirit.

NEW TESTAMENT THEOLOGY. Lectures by Professor Scott.

OLD TESTAMENT THEOLOGY. Lectures by Professor Jordan.

II.—HEBREW.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

FELLOW—Rev. H. T. Wallace, B.A., B.D.

Junior Hebrew.

Davidson's Hebrew Grammar, the first twenty exercises, the Verb, pp. 162-182.
Psalm 1, Genesis I, I Samuel IX-XI.

Senior Hebrew.

Davidson's Grammar, exercises in paragraphs 20 to 38 inclusive. the Irregular Verbs.

Hebrew Syntax; the class lectures.

Job I-V, Ps. CIII, I Kings XVII-XIX.

III.—APOLOGETICS.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over two sessions, and must be taken during either the first and second, or second and third years of the Theological curriculum.

Students who have already taken Honours in Philosophy are exempted from one year's attendance.

1. Lectures on Apologetics from the beginning of the 16th century.
 2. Lectures on the Historical Evidences for Christianity.
 3. Examination of Bruce's Apologetics, Books III and IV.
Butler's Analogy, Part I.
-

IV.—O. T. CRITICISM EXEGESIS.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

Exegesis. Selections from the Pentateuch.

Criticism. The Documentary Theory.

Honour Course: Hebrew: The Primitive History, Gen. I-XI.

Exercises in Davidson's Grammar, 38 to the end.

Daniel, especially the portions in Aramaic.

This course extends over two years.

V.—N. T. EXEGESIS AND CRITICISM.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over three sessions. Students who have taken first class Honours in Greek are exempted from one year's attendance on the Pass class, but must during that year take the Honour N.T. class.

Selections from I Cor., Eph., Phil., Col.

Commentary: Expositor's Greek Testament and International Commentaries.

Kenyon's Textual Criticism, Burton's N. T. Moods and Tenses.

Lectures on Introduction and Criticism.

Honour Course: Epistles to the Romans and Hebrews.

VI.—CHURCH HISTORY AND HISTORY OF DOGMA.

PROFESSOR—REV. E. F. Scott, M.A., D.D.

The History of the Church in the first three Centuries.

The Middle Ages and the Reformation.

The Development of Christian Doctrine.

Gwatkin's Selections from early Christian writers.

HONOUR CLASS.

The Apostolic Fathers, edited by Lightfoot.

Selected writings of the Ante-Nicene Period.

Classes open to Theological students who have an elementary knowledge of the German language, are conducted by Professors Scott and Jordan.

VII.—PRACTICAL THEOLOGY.

PROFESSOR—REV. Robert Laird, M.A.

Lectures on: 1. The Church—its Constitution, Organization and Ministry.

2. Public Worship. 3. Preaching. 4. Religious Education. 5. Pastoral Care. 6. The Church and Social Problems. 7. Missions.

Practical training in the conduct of Worship and Homiletics.

VIII.—ENGLISH BIBLE.

LECTURERS—*Old Testament*: Professor Jordan.

New Testament: Professor Scott.

O. T. Part I. The Pentateuch, early history and histories of the Divided Kingdom down to the time of the writing Prophets.

N. T., Part II. The Acts and Epistles.

The Church requires the following discourses to be delivered during the course:—Homily, Lecture and Greek Critical Exercise, Sermon and Hebrew Critical Exercise.

Degree of Bachelor of Divinity.

REGULATIONS.

1. Candidates for the Degree of Bachelor of Divinity, (B.D.), must be graduates in Arts in this University, or of a University whose degrees are recognized by the Senate, and must follow the prescribed order of classes in Theology.

2. The degree shall not be conferred until the candidate has completed the theological curriculum with a view to the ministry in the church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

3. The divisions of the examinations shall be (1) The Holy Scriptures. Candidates will be expected to show a competent knowledge of the contents of the Old and the New Testaments, and to show special acquaintance with at least one book from the O. T. and one from the N. T. The Revised Version should be used. (2) O. T. Criticism and Introduction, Hebrew and Aramaic, *or* N. T. Criticism, Exegesis and Introduction. (3) Any one of the following:

Systematic Theology.

Church History and History of Dogma.

Apologetics and Comparative Religion.

Two papers will be set in (1) and four papers in each of the other divisions.

4. Candidates who have completed the Theological course may be examined in all the subjects, or may defer their examinations in any subject.

5. Students may be admitted to examination in only one division at the end of the second session of their theological course.

6. Students must make 60 per cent. in the Pass examinations of subjects not included in their B.D. course, and 67 per cent. in each of the ten papers of the B.D. course.

7. A candidate may, subject to the preceding regulations, appear at any University examinations in Theology, provided he gives three week's notice of his intention to the Registrar and pays the examination fee.

Autumn examinations begin on Monday, Oct. 26th. Candidates must give notice to the Dean of the Faculty before Oct. 5th.

Subjects of Examination:

- I. The Holy Scriptures. The contents of the Old and New Testaments generally with a special knowledge of Isaiah and St. Luke, in the Revised Version.

Books recommended:

Bennett's Primer of the Bible, or Kautzsch's Outlines of O. T. Literature.

Driver's Isaiah.

Menzies' The Earliest Gospel.

II. Hebrew and Aramaic. O. T. Introduction and Criticism.

(a) General Introduction to the O. T. Literature.

(b) Criticism and Exegesis. Ecclesiastes.

(c) Aramaic, The Book of Daniel.

There are two papers in division (b) and one each in (a) and (c). Extra-mural candidates may substitute for (c) Gen. I-IV.

Books to be consulted:

Introduction:—Driver: O. T. Introduction. McFayden: An Introduction to the O. T. Bennett and Adeney: A Biblical Introduction. Jordan: Biblical Criticism and Modern Thought.

Hexateuch:—Gunkel: Legends of Genesis. Ryle: Early Narratives of Genesis. Duff: Abraham. Bacon: Genesis of Genesis. Driver: The Book of Genesis. Dillmann: Genesis. Carpenter and Battersby: The Oxford Hexateuch. Gordon: Early Traditions of Genesis.

History and Historical Books:—H. P. Smith: O. T. History. Cornill: History of Israel. McFayden: Messages of the Prophetic and Priestly Historians.

Prophetic Books:—Jordan: Prophetic Ideas and Ideals. Driver: Isaiah I-XXXIX (Camb. Bible). Skinner: Isaiah, XL-LXVI (Camb. Bible). Cornill: Prophets of Israel.

Poetical Books and Aramaics:—A. B. Davidson: The Book of Job (Camb. Bible). G. G. Bradley: The Book of Job. Cheyne: Origin of the Psalter. Driver: Daniel (Camb. Bible). Ryle: Ezra and Nehemiah (Camb. Bible).

III. N. T. Criticism, Exegesis and Introduction.

(a) 1. Canonics.

Westcott's History of the Canon of the N. T.

2. Textual Criticism, MSS., Versions and principal disputed passages.

Kenyon's Textual Criticism.

Westcott and Hort, Greek N. T. Introduction.

(b) Introduction, Salmon, Weiss, Expositor's Greek Text, Articles in Hastings' Bib. Dictionary and Encyclopedia Biblica.

(c) Exegesis, Epp. Epistles to the Romans and Hebrews.

Commentaries: International Crit. Com. and Expositor's Greek Test.

- (d) N. T. Greek; Burton's Syntax of the Moods and Tenses, pp. 73-129.
Blass' Grammar of N. T. Greek., Moulton's Grammar of N. T. Greek.

IV. Systematic Theology.

- (a) The Christian Conception of God; Caird's Fundamental Ideas of Christianity, Brown's Outline, pp. 81-155, Clarke's Outline, pp. 63-181, Van Oosterzee's Christian Dogmatics, pp. 234-354.
- (b) The Christian Doctrine of Sin; Tulloch, Muller Vol. I.
- (c) The Atonement; McLeod Campbell, Dale, Lidgett, Moberley.
- (d) The Church; Hatch's Early Organization, Hort's Ecclesia.

V. Church History and History of Dogma.

- (a) Church History. Ante Nicene Period; Gwatkin's selections from early Christian writers, and Lightfoot's Apostolic Fathers.
- (b) History of Dogma.
The Development of Christian Thought in the first three Centuries.

Books to be consulted:

Neander's Church History, Vols. I, II; Ramsay's Church in the Roman Empire before A.D. 170, part II; Dorner's Doctrine of the Person of Christ, Vol. I; Forrest's Christ of History and Experience; Hooker's Laws of Ecclesiastical Polity, Book V, sections 50-57; Allen's Christian Institutions and Unity of Christian Thought.

VI. Apologetics and Comparative Religion.

- (a) Philosophical and Historical.
Fraser: Philosophy of Theism. (Gifford Lectures).
Caird: The Evolution of Religion.
Bruce: Apologetics.
- (b) Comparative Religion.
Grant: The Religions of the World.

Benefactors have placed at the disposal of the Principal a few nominations, exempting from payment of class fees throughout the course in Arts, for intending students of Theology who have matriculated. Applications for these should be made to him or to the Registrar before Oct. 1st.

The Stewart bequest of \$5,000 to the Theological Department will be administered by the Faculty in terms of the will.

FACULTY OF LAW. DEGREE OF LL.B.

1. This degree will not be conferred upon any undergraduate or upon any graduate in Arts of less than one year's standing.

2. Graduates who have taken the honour courses of this University in History and Political Science may proceed to the degree by passing on the following works:—

Commentaries of Gaius, Abdy and Walker.

Institutes of Justinian. Sandars.

Harris' Principles of Criminal Law. Also Canadian Criminal Code, with amendments.

Maxwell's Interpretation of Statutes. Also Interpretation Acts, in Revised Statutes of Canada and Ontario.

Westlake's Private International Law.

T. A. Walker's International Law.

O. W. Holmes' The Common Law.

Goodnow's Comparative Administrative Law.

Dicey's Law of the Constitution.

Houston's Constitutional Documents of Canada.

3. Barristers-at-Law or persons who have been admitted as students-at-law by the Law Society of Upper Canada and have passed their second Intermediate Examination will be admitted to the degree by passing on the honour course of this University in History and Political Science together with the works specified in section 2.

4. Graduates in Arts of this or any recognized University, being Barristers-at-Law, will be admitted to the degree by passing on the following works in addition to those specified in section 2:—

Bryce's American Commonwealth, Vol. I.

Stubbs's Constitutional History of England.

Bagehot's English Constitution.

Dicey's Law and Public Opinion in England.

Holland's Elements of Jurisprudence.

Maine's Ancient Law.

5. Candidates are required to send notice to the Registrar, before the first day of March, of their intention to present themselves at any of the examinations.

SOCIETIES AND COMMITTEES.

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Bible Study	W. Dobson.
Programme	W. A. Dobson.
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Handbook	C. R. Graham, B.A.
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Bible Study	Miss F. McKerracher.
Missionary	Miss M. Hall.
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	{ W. H. Burgess.
Committee	{ G. N. Urie.
	{ A. D. Pringle.
	{ J. G. Ross.

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Junior Judge	C. H. Elliott.
Senior Prosecuting Attorney	R. E. McLaughlin.
Sheriff	A. B. Turner.
Clerk	S. S. Cormack.
Chief of Police	G. B. Kendrick.
Junior Prosecuting Attorney	E. B. Wylie.
Crier	G. E. McKinnon.
Constables.	{ '09 { W. Dobson.
	{ J. H. McDonald.
	{ '10 { G. S. Otto.
	{ G. E. McDonald.
	{ '11 { H. D. McCulloch.
	{ J. McIntosh.
	{ '12 { R. H. McKinnon.
	{ R. Bruce.

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President	J. E. Galbraith.
Vice-President	J. N. Gardiner.
Secretary	B. L. Wickware.
Assistant Secretary	S. E. Thompson.
Treasurer	A. B. Wickware.
Committee. {	'09 J. E. Brunet.
	'10 E. Beroard.
	'11 S. G. Chown.
	'12 A. H. Harty.

MEDICAL CONCURSUS INIQUITATIS ET VIRTUTIS.

Chief Justice	J. J. McPherson.
Senior Judge	A. Ferguson.
Junior Judge	T. J. Goodfellow.
Senior Prosecuting Attorney	C. J. McPherson.
Junior Prosecuting Attorney	J. P. Bailey.
Medical Experts	{ C. W. Burns.
	{ A. J. Keeley.
Sheriff	W. Hale.
Clerk	G. M. Gibson.
Crier	J. Nash.
Chief of Police	J. A. Houston.
Constables	{ N. E. Macdougall.
	{ M. A. McKay.
	{ E. M. Oldham.
	{ R. J. Shute.
Grand Jury	{ W. H. Craig.
	{ L. N. Marcellus.
	{ R. M. Ferguson.
	{ G. L. Cooke.
	{ F. C. Bracken.
	{ P. J. Kennedy.
	H. M. Harrison.
	D. C. Irwin.

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Honorary President	Prof. S. F. Kirkpatrick.
President	E. L. Bruce.
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